DOCUMENT RESUME

ED 317 960 CS 010 008

TITLE IBM Directory of Educational Objectives and Networkable Software for Grades K-8 in Language Arts, Reading, and Mathematics.
INSTITUTION IBM Corp., Atlanta, GA. Educational Systems.
PUB DATE May 89
NOTE 97p.
PUB TYPE Guides - Classroom Use - Guides (For Teachers) (052)

EDRS PRICE MF01/PC04 Plus Postage.
DESCRIPTORS Basic Skills; Computer Assisted Instruction; Computer Networks; *Computer Software Selection; *Courseware; Educational Objectives; Elementary Education; Instructional Materials; *Language Arts; *Mathematics Instruction; *Reading Instruction; Thinking Skills
IDENTIFIERS Networking

ABSTRACT

Intended as an easy-to-use quick reference tool for finding good software packages to meet specific educational objectives in language arts, reading, and mathematics, this directory focuses on highly rated software designed to teach basic learning and thinking skills. Software listed in the directory is available from International Business Machines (IBM) and other selected vendors. The directory includes subject area educational objectives and software matrices, an alphabetical list of software titles, and software publisher contact information. (RS)

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K-8

Reading
Language Arts
Mathematics

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Directory of Educational Objectives & Networkable Software

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IBM DIRECTORY OF EDUCATIONAL OBJECTIVES AND NETWORKABLE SOFTWARE FOR GRADES K-8 IN LANGUAGE ARTS, READING AND MATHEMATICS

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Acknowledgements:

Special thanks are extended to the many educators who
contributed much invaluable information for this directory.

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First Edition (May 1989)

IBM Directory of Educational Objectives & Networkable Software—K-8

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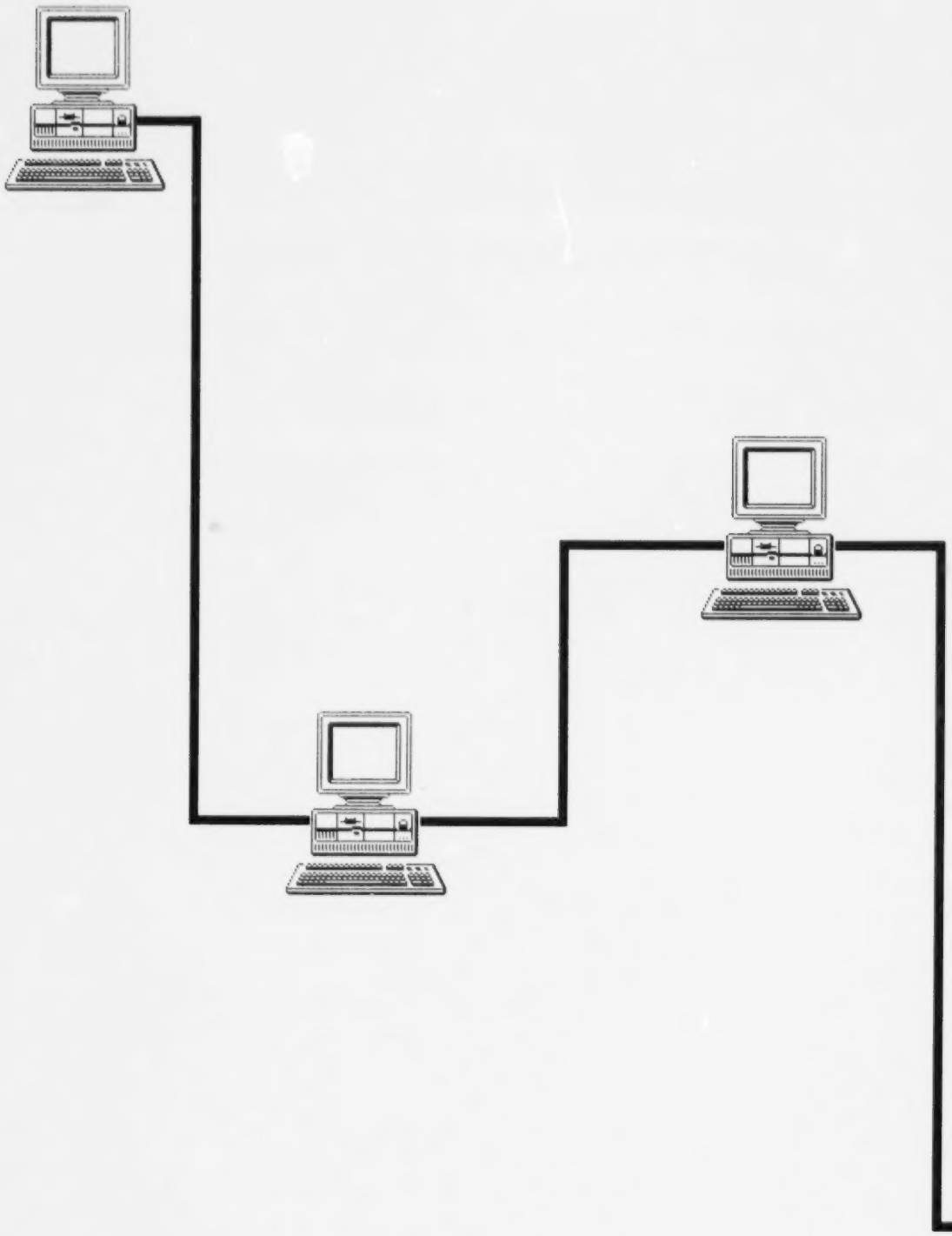

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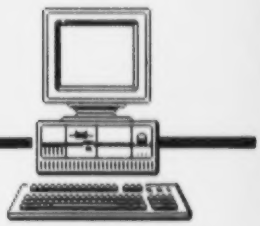
Dear Educator:

As we approach the twenty-first century, educators today continue to share a primary concern with their colleagues of centuries past. As you prepare students to assume their responsibilities as citizens, you know that their success will be truly measured by the degree that students acquire and cultivate **a lifelong desire to learn.**

IBM is committed to supporting education, and to pursuing integrated solutions for the improvement of literacy and basic skills. We are committed to providing education-specific instructional and management support over computer networks that range from the state level to the classroom. We want to strengthen the ongoing partnership between IBM and the educational community, to help you prepare students for a productive role in society.

To this end, IBM has created an organization, IBM Educational Systems, for the specific purpose of assisting K-12 and Vocational Technical educators in using technology as a means of enhancing student learning. Members of the staff at IBM Educational Systems are skilled IBM personnel and educators who assist school districts throughout the country in planning and implementing the use of computers in education.



Working with teachers to improve the process of classroom learning has led to IBM's concentration on the development of software that teaches basic learning and thinking skills. This software uses the color, sound and graphic capabilities of IBM personal computers to achieve instructional objectives. The software library includes reading, language arts, mathematics, science and productivity tools. IBM software takes full advantage of technology to capture students' imaginations and reinforce the best of traditional teaching methods.

This directory focuses on highly rated software from IBM and other selected vendors.

Each software package included in this directory has been carefully selected and mapped to an extensive set of K-8 educational objectives for language arts, reading and mathematics. So with this directory, you have a quick, easy-to-use reference tool when trying to find good software packages to meet your specific educational objectives.

We hope you find this directory helpful in planning and implementing the use of IBM technology. We at IBM remain committed to providing you quality products and ongoing service as you pursue your instructional goals.

Sincerely,

J. E. Frey

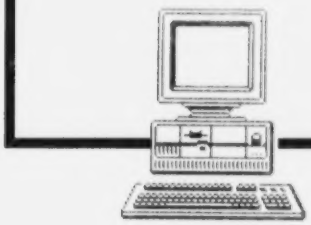
J.E. Frey
Manager, Classroom Applications
IBM Educational Systems

About This Directory

This directory is composed of subject area charts that map educational objectives to top-rated educational software. The objectives were synthesized from seven state departments of education, major textbooks and major learner outcome guidelines from a nationally developed test item bank.

How To Use This Directory

First, pick from the list provided in the Table of Contents the subject area topic (such as spelling, reading comprehension, writing, etc.) which you wish to teach.



Then turn to those pages of this directory to view a listing of the topic objectives and software that teaches those objectives.

Once you've found software that meets your teaching needs, refer to the Alphabetical List of Titles for the publisher name...

	Title	Publisher	Curriculum	Grade
A	Algebra I: Part I	IBM	Mathematics	8-12
	Algebra Shop	Scholastic	Mathematics	7-12
	Alphabet Circus	DLM Teaching Resources	Language Arts	K-1
	Analogies Advanced	Hartley Courseware	Language Arts	8-12
	Analogies Tutorial	Hartley Courseware	Language Arts	5-8
	Antonyms & Synonyms	Hartley Courseware	Language Arts	3-8
B	Back Street Artist II	Scholastic	Language Arts	7-12
	Basic Math Competency Skill Builder: Graphs & Mean, Median, Mode	Educational Activities	Mathematics	4-12
	Basic Math Competency Skill Builder: Measuring with a Ruler	Educational Activities	Mathematics	5-8
	Bibliography Generator	Educational Activities	Language Arts	6-12
	Bouncy Bee Learns Letters	IBM	Language Arts	Pre K-3
	Bouncy Bee Learns Words	IBM	Language Arts	K-5
C	Calendar Skills	Hartley Courseware	Mathematics	1-3
	Cause & Effect	Hartley Courseware	Language Arts	4-6
	Chariots, Cougars & Kings	Hartley Courseware	Language Arts	3-5
	Clock	Hartley Courseware	Mathematics	1-4
	Combining Sentences: Level II	IBM	Language Arts	3-4
	Combining Sentences: Level III	IBM	Language Arts	5-6
	Combining Sentences: Level IV	IBM	Language Arts	7-8

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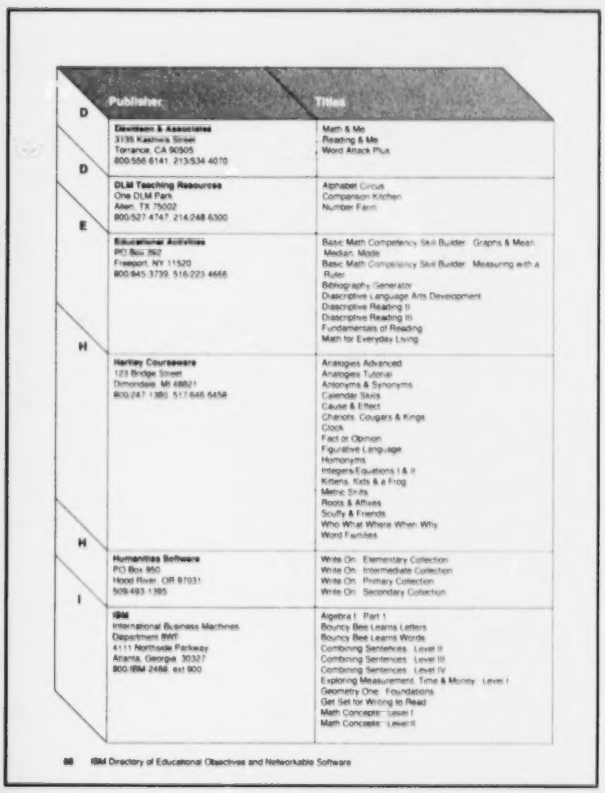
...and then to the Publisher Contact Information in Part III for ordering information.



	Publisher	Titles
D	**Davidson & Associates** 3135 Kashiwa Street Torrance, CA 90505 800/556-6141, 213/534-4070	Math & Me Reading & Me Word Attack Plus
D	**DLM Teaching Resources** One DLM Park Allen, TX 75002 800/527-4747, 214/248-6300	Alphabet Circus Comparison Kitchen Number Farm
E	**Educational Activities** PO Box 392 Freeport, NY 11520 800/645-3739, 516/223-4666	Basic Math Competency Skill Builder: Graphs & Mean, Median, Mode Basic Math Competency Skill Builder: Measuring with a Ruler Bibliography Generator Diascriptive Language Arts Development Diascriptive Reading II Diascriptive Reading III Fundamentals of Reading Math for Everyday Living
H	**Hartley Courseware** 123 Bridge Street Dimondale, MI 48821 800/247-1380, 517/646-6458	Analogies Advanced Analogies Tutorial Antonyms & Synonyms Calendar Skills Cause & Effect Chariots, Cougars & Kings Clock Fact or Opinion Figurative Language Homonyms Integers/Equations I & II Kittens, Kids & a Frog Metric Skills Roots & Affixes Scuffy & Friends Who What Where When Why Word Families
H	**Humanities Software** PO Box 950 Hood River, OR 97031 509/493-1395	Write On: Elementary Collection Write On: Intermediate Collection Write On: Primary Collection Write On: Secondary Collection
I	**IBM** International Business Machines Department BWT 4111 Northside Parkway Atlanta, Georgia 30327 800/IBM-2468, ext 900	Algebra I: Part 1 Bouncy Bee Learns Letters Bouncy Bee Learns Words Combining Sentences: Level II Combining Sentences: Level III Combining Sentences: Level IV Exploring Measurement, Time & Money: Level I Geometry One: Foundations Get Set for Writing to Read Math Concepts: Level I Math Concepts: Level II

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Results

Results from the use of any educational software application are dependent on a variety of factors. Therefore, the educational objectives described in this brochure may not be achieved in every situation. The software correlations in this directory were made by LIST Services based on the versions of software products available to LIST Services' reviewers at the time this directory was being prepared.

Networking—A More Efficient Software Delivery System

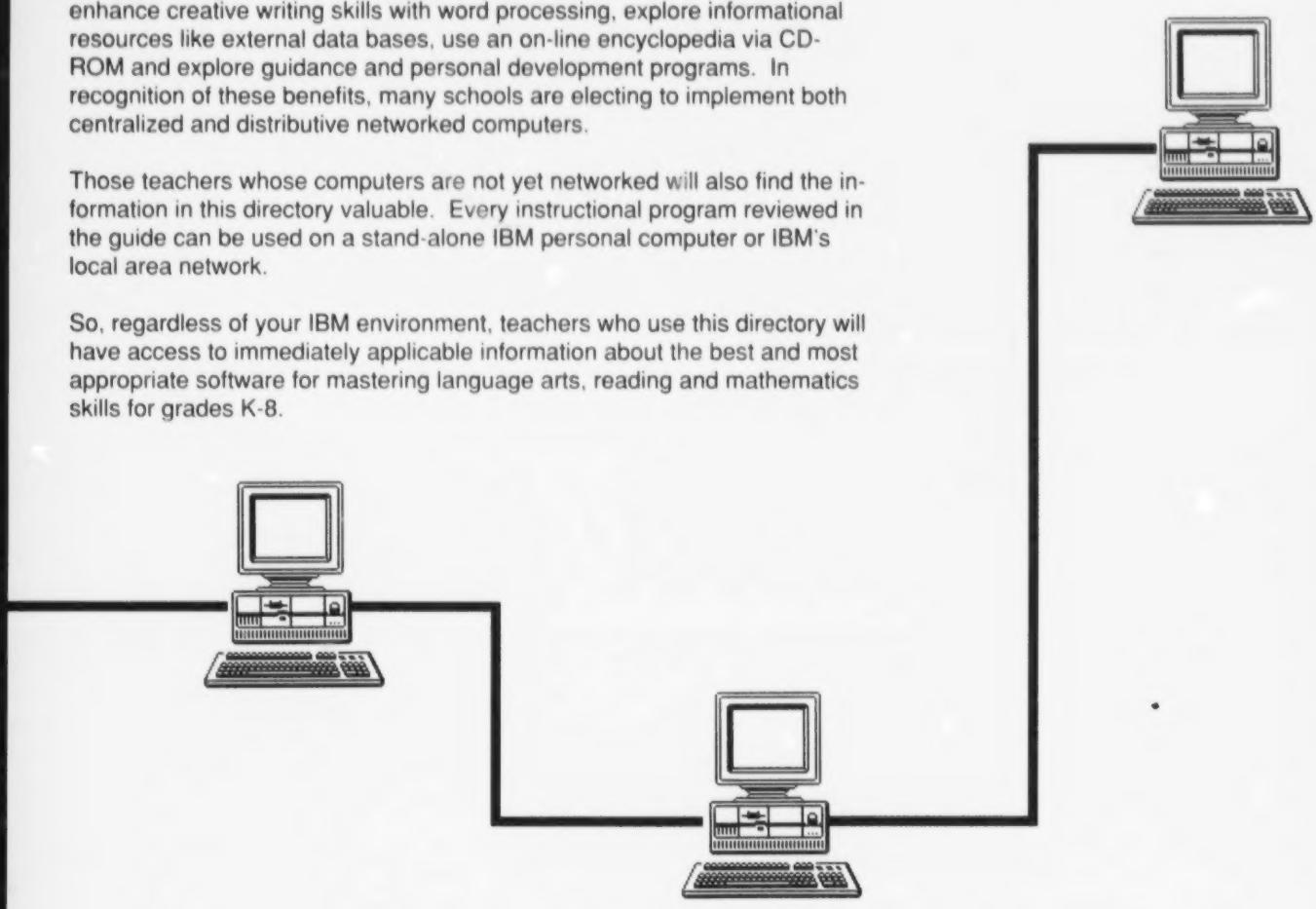
As schools make more use of computers, teachers and administrators are beginning to recognize the value of computer networking. They have concluded that networking can help them do more, for more students, with greater degrees of efficiency and control than stand-alone computers.

In the classroom, the networked computer gives you the ability to call on the entire computer resources of the school. In this environment, you can more easily integrate curriculum, work with students individually or in small groups, and more closely manage the learning process.

In the networked computer lab, students can individually supplement classroom learning with curriculum specific software, reinforce basic skills, enhance creative writing skills with word processing, explore informational resources like external data bases, use an on-line encyclopedia via CD-ROM and explore guidance and personal development programs. In recognition of these benefits, many schools are electing to implement both centralized and distributive networked computers.

Those teachers whose computers are not yet networked will also find the information in this directory valuable. Every instructional program reviewed in the guide can be used on a stand-alone IBM personal computer or IBM's local area network.

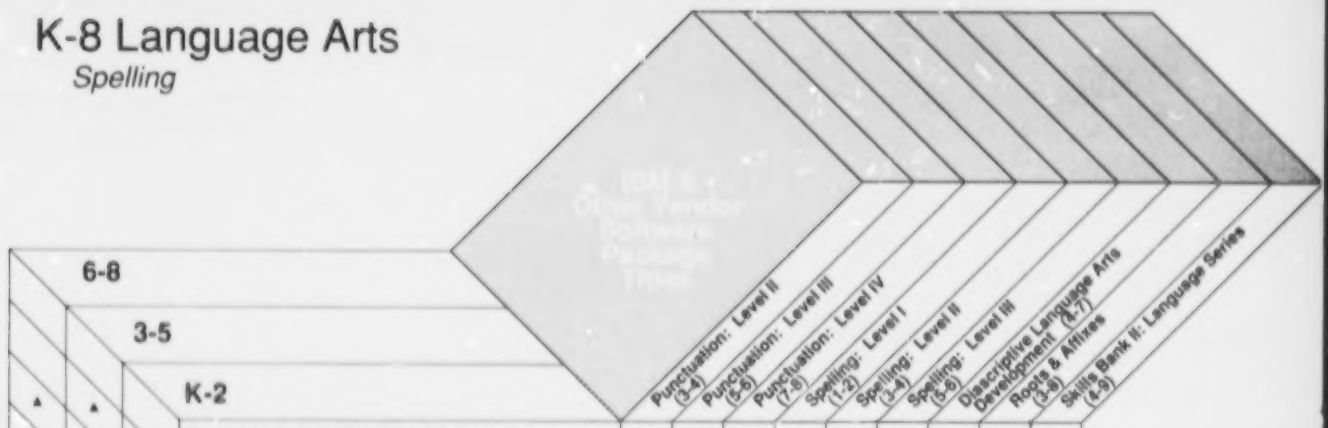
So, regardless of your IBM environment, teachers who use this directory will have access to immediately applicable information about the best and most appropriate software for mastering language arts, reading and mathematics skills for grades K-8.



Language Arts Matrices

K-8 Language Arts

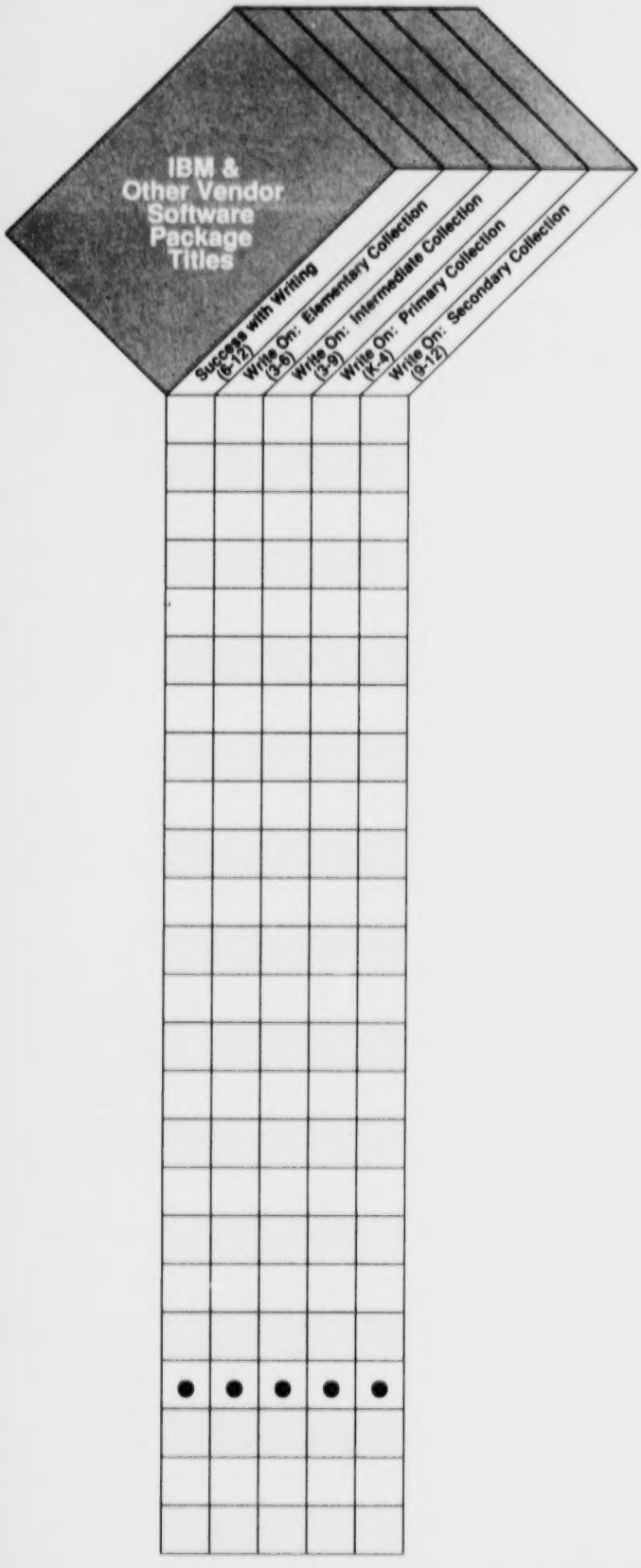
Spelling



Curriculum Objectives	Punctuation: Level II (3-4)	Punctuation: Level III (5-5)	Punctuation: Level IV (7-8)	Spelling: Level I (1-2)	Spelling: Level II (3-4)	Spelling: Level III (5-6)	Descriptive Language Arts Development (K-7)	Roots & Affixes (3-9)	Skills Bank II: Language Series (4-9)
Apply letter/sound knowledge to spell correctly									
Spell unfamiliar words using phonetic spelling									
Spell words from grade level word lists				○	○	○			
Spell own name									
Spell own address									
Spell color words									
Spell days of the week									
Spell months of the year									
Spell numbers									
Spell holidays									
Create plurals using s & es correctly				●	●	●	●		●
Create irregular plural forms					●	●			●
Form simple contractions using an apostrophe	●	●	●	●	●	●	●		●
Spell out abbreviations	○	○	○						
Use root words to determine spelling							●	●	
Attach prefixes to words							●	●	
Attach suffixes to words							●	●	●
Recognize & spell homonyms correctly									
Check spelling using a dictionary									
Correct writing for spelling errors									
Use rules for inflectional endings (change y to i)				●	●	●			●
Use rules for inflectional endings (final double consonant)				●	●	●			●
Use rules for inflectional endings (drop final e)				●	●	●			●

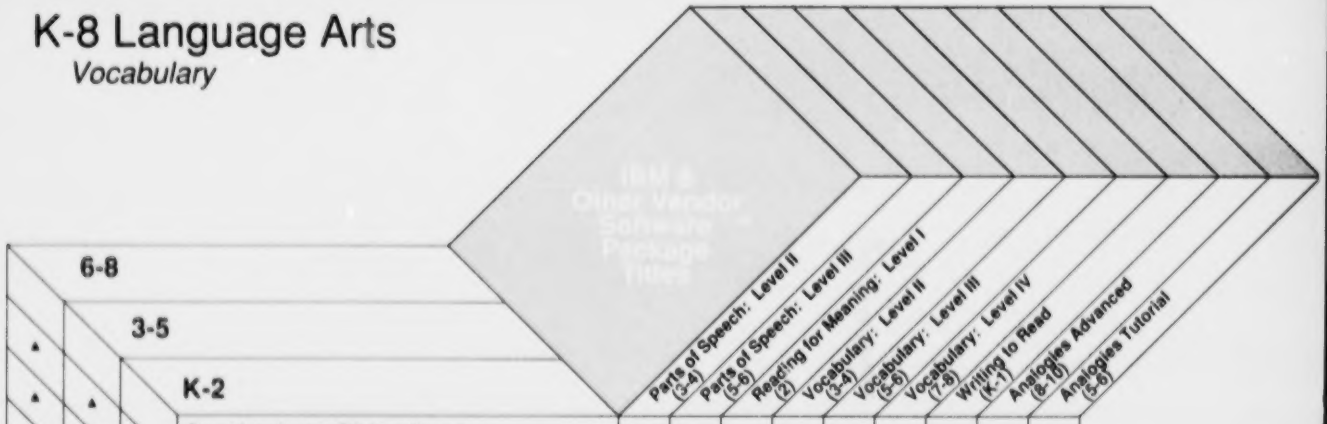
● Package fulfills curriculum objective

○ Package partially fulfills curriculum objective with teacher input


IBM &
Other Vendor
Software
Package
Titles
Success with Writing (6-12)
Write On: Elementary Collection (3-6)
Write On: Intermediate Collection (3-9)
Write On: Primary Collection (K-4)
Write On: Secondary Collection (9-12)

K-8 Language Arts

Vocabulary

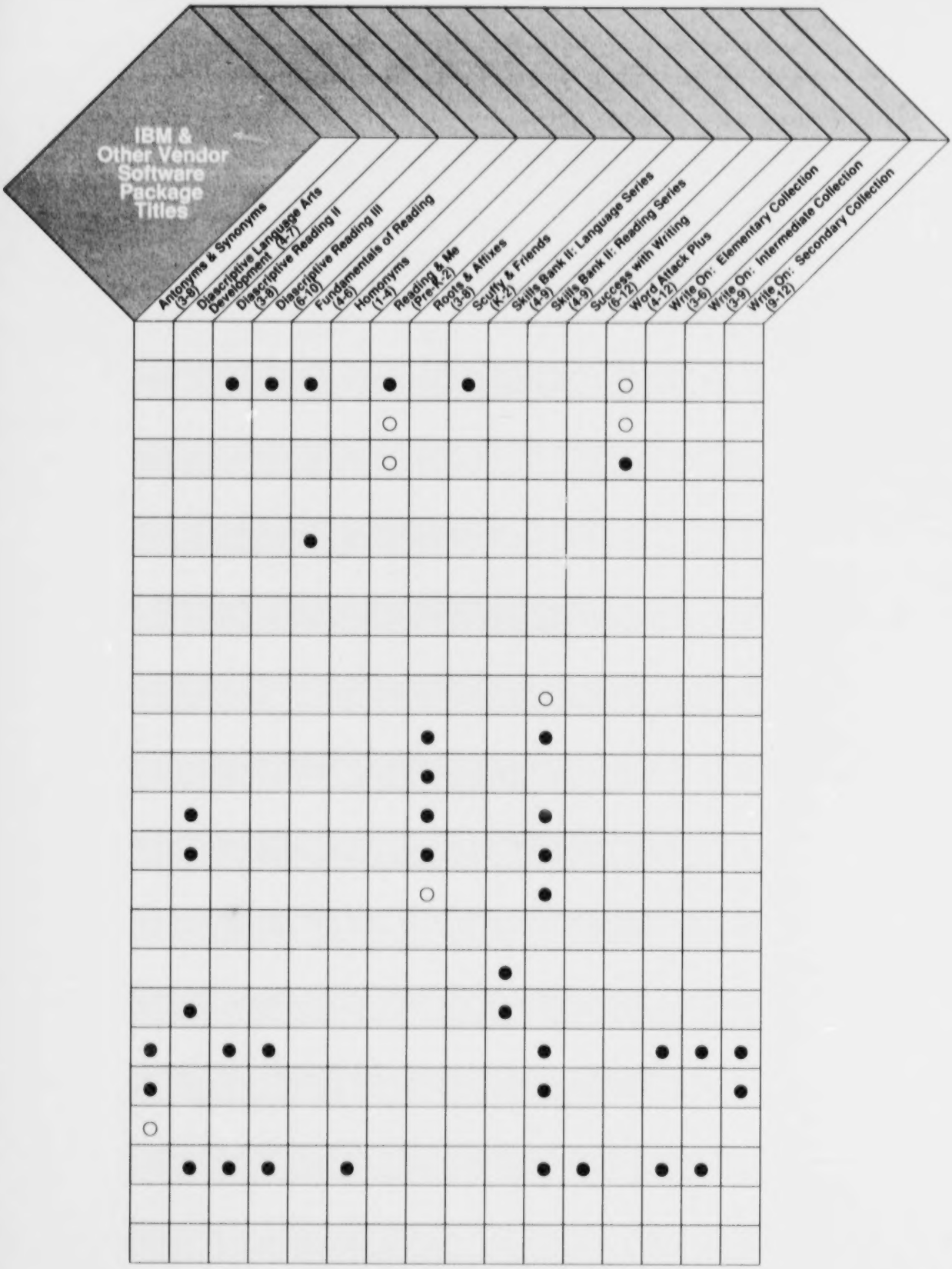


Curriculum Objectives										
Determine word meaning through the use of context clues			●	●	●	●	○		
Use word order & sentence structure to determine word meaning									
Define frequently used sight words									
Identify & select appropriate definition for multiple meaning words									
Increase vocabulary through content area words									
Use dictionary to determine meaning of words									
Explain how the meanings of words change & cite examples									
Use knowledge of word derivation to determine meaning									
Note major influences on the history of English									
Identify meaning through knowledge of root words				●	●	●			
Employ knowledge of word parts to determine meaning				●	●	●			
Identify meaning through knowledge of prefixes				●	●	●			
Identify meaning through knowledge of suffixes				●	●	●			
Identify root words in compound words									
Recognize the effect of negative words on the meaning of sentences									
Explain the effect of inflectional endings on meaning of words									
Use possessives & contractions to change the meaning of words									
Cite synonyms for a given word									
Cite antonyms for a given word									
Identify synonyms & antonyms with the thesaurus									
Distinguish between different meanings of homonyms	●	●							
Identify acronyms & give their meanings									
Recognize & define abbreviations									

continues

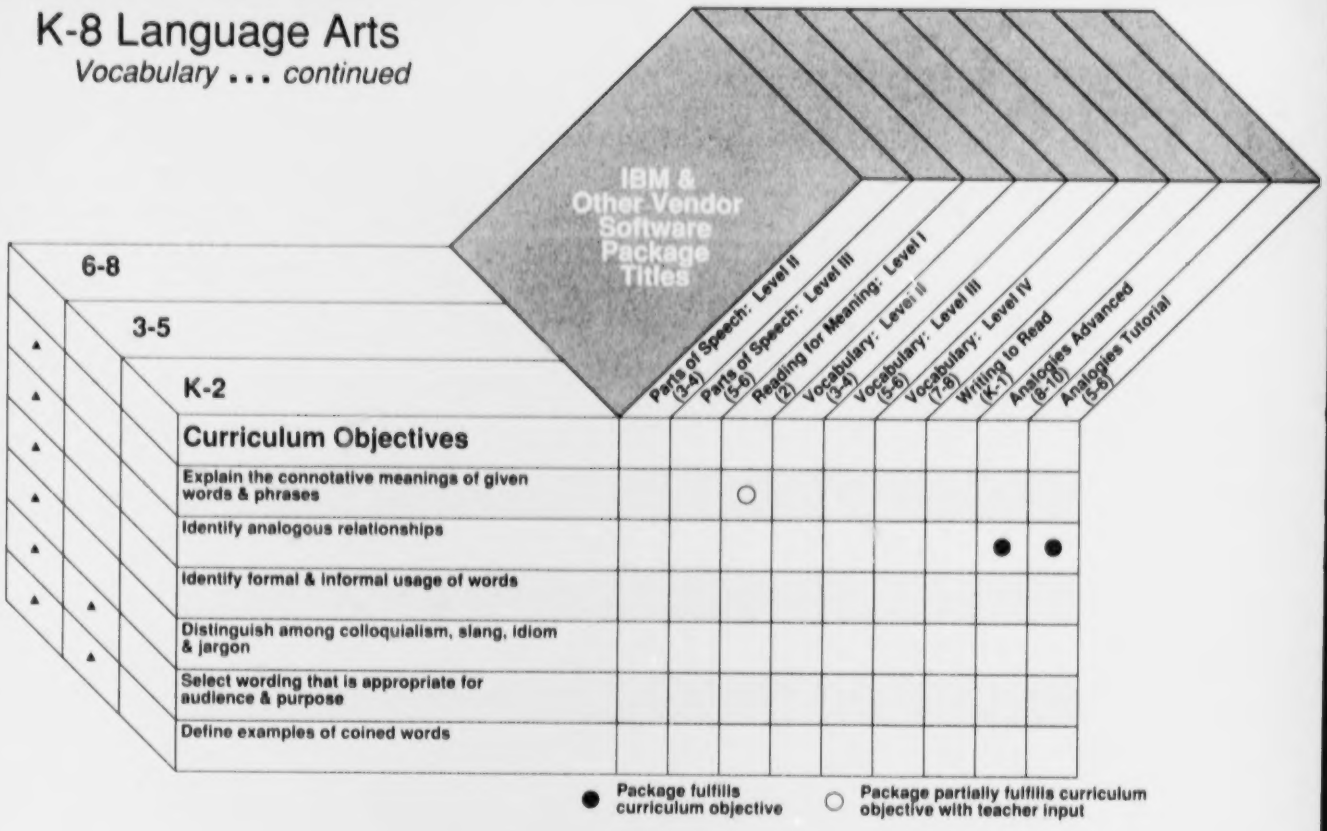
● Package fulfills curriculum objective

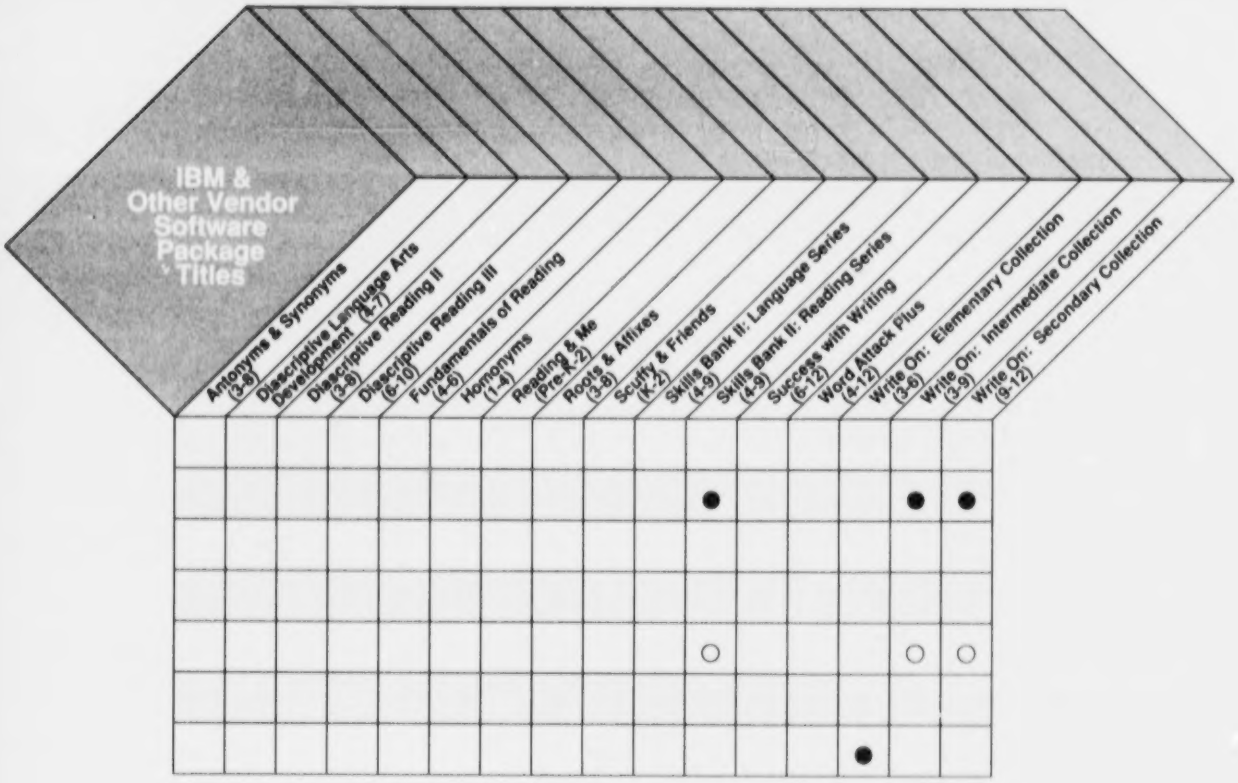
○ Package partially fulfills curriculum objective with teacher input


IBM & Other Vendor Software Package Titles
Antonyms & Synonyms (3-8)
Diascriptive Language Arts Development (4-7)
Diascriptive Reading II (3-8)
Diascriptive Reading III (6-10)
Fundamentals of Reading (4-6)
Homonyms (1-4)
Reading & Me (Pre-K-2)
Roots & Affixes (3-8)
Scuffy & Friends (K-2)
Skills Bank II: Language Series (4-9)
Skills Bank II: Reading Series (4-9)
Success with Writing (6-12)
Word Attack Plus (4-12)
Write On: Elementary Collection (3-6)
Write On: Intermediate Collection (3-9)
Write On: Secondary Collection (9-12)

K-8 Language Arts

Vocabulary ... continued


IBM & Other Vendor Software Package Titles
Parts of Speech: Level II (3-4)
Parts of Speech: Level III (5-6)
Reading for Meaning: Level I (2)
Vocabulary: Level II (3-4)
Vocabulary: Level III (5-6)
Vocabulary: Level IV (7-8)
Writing to Read (K-1)
Analogies Advanced (8-10)
Analogies Tutorial (5-6)
6-8
3-5
K-2
Curriculum Objectives
Explain the connotative meanings of given words & phrases
Identify analogous relationships
Identify formal & informal usage of words
Distinguish among colloquialism, slang, idiom & jargon
Select wording that is appropriate for audience & purpose
Define examples of coined words
● Package fulfills curriculum objective
○ Package partially fulfills curriculum objective with teacher input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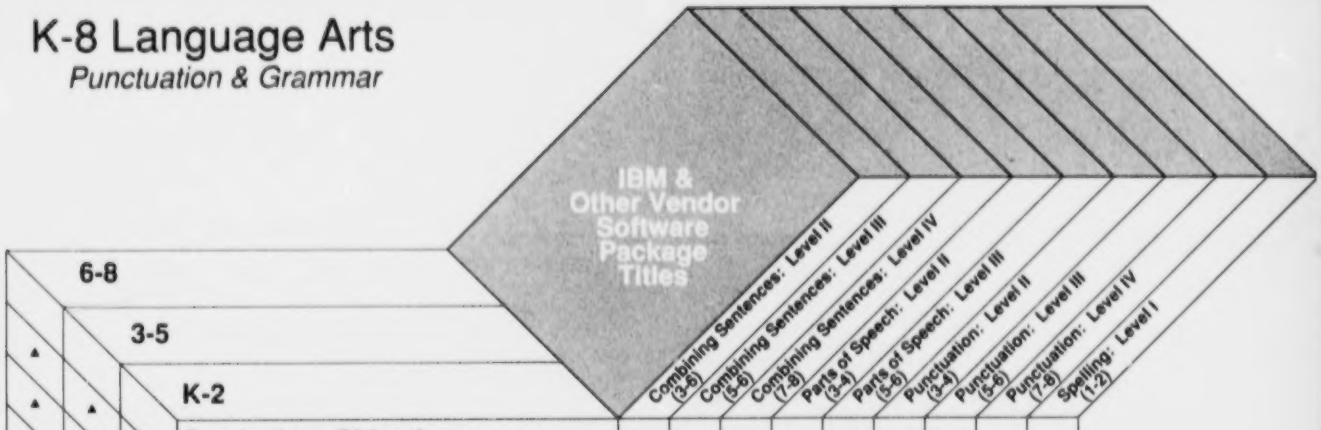
Word Attack Plus (4-12)
Write On: Elementary Collection (3-9)
Write On: Intermediate Collection (3-9)
Write On: Secondary Collection (9-12)

K-8 Language Arts

Punctuation & Grammar

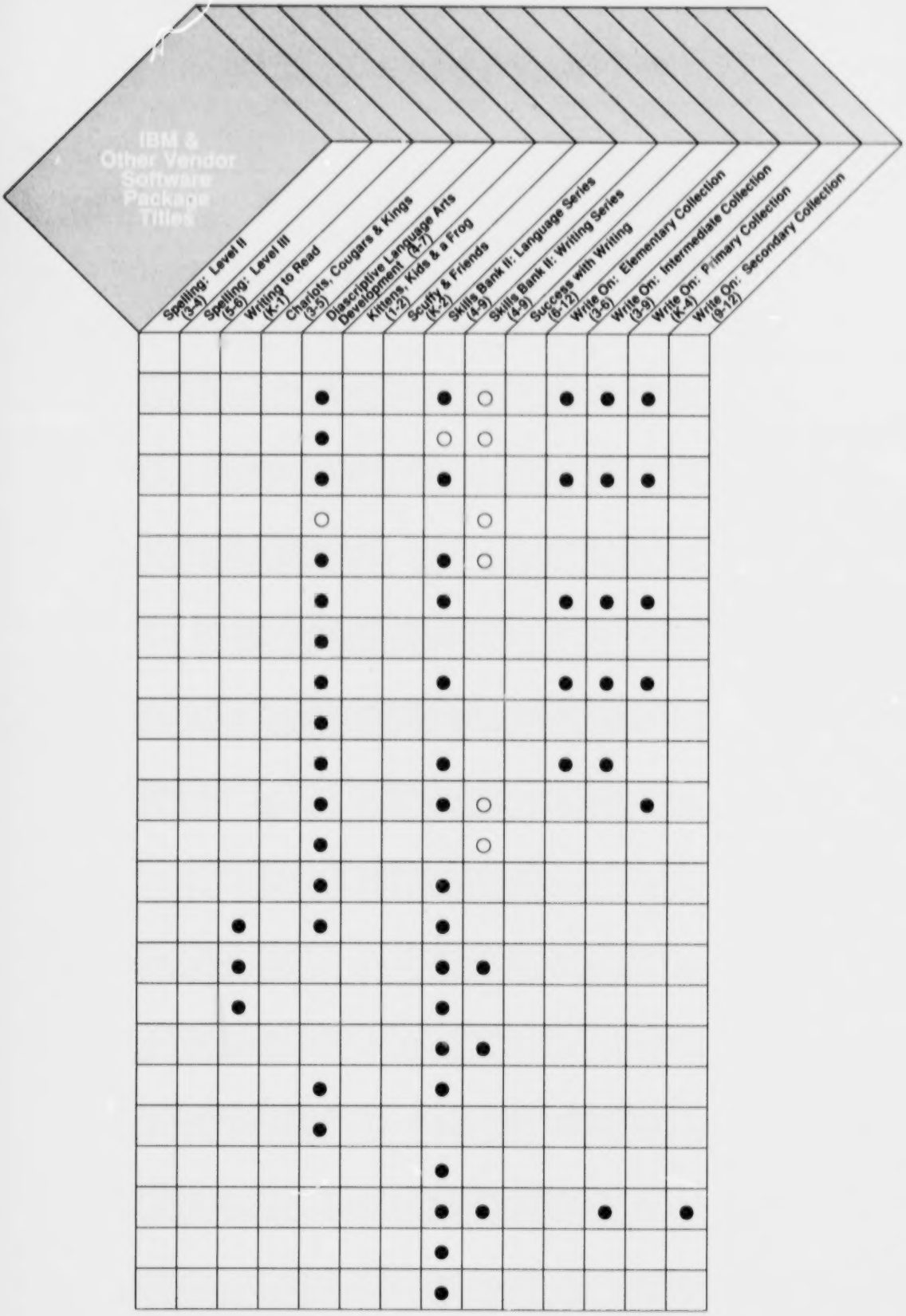

IBM & Other Vendor Software Package Titles
Combining Sentences: Level II (3-6)
Combining Sentences: Level III (5-6)
Combining Sentences: Level IV (7-8)
Parts of Speech: Level II (3-4)
Parts of Speech: Level III (5-6)
Punctuation: Level II (3-4)
Punctuation: Level III (5-6)
Punctuation: Level IV (7-8)
Spelling: Level I (1-2)
6-8
3-5
K-2

Curriculum Objectives											
Identify naming words (nouns)				●	●						
Use correct subject/verb agreement with collective nouns											
Identify action words (verbs)				●	●						
Explain the function of auxiliary verbs											
Use correct form of regular & irregular verbs				●	●						
Identify describing words (adjectives)				●	●						
Distinguish between the use of a & an				●	●						
Identify adverbs				●	●						
Use correct degrees of comparison for adverbs											
Use adverbs & adjectives appropriately											
Identify pronouns				●	●						
Identify prepositions				●	●						
Identify conjunctions				●	●						
Capitalize proper nouns correctly						●	●	●			
Capitalize first word in a sentence						●	●	●			
Capitalize pronoun I						●	●	●			
Capitalize first word in a quoted sentence						●	●	●			
Capitalize common titles correctly (e.g., Mrs., Dr., Aunt)						●	●	●			
Capitalize abbreviations for proper names (e.g., U.S.A.)						●	●	●			
Capitalize initials for proper names						●	●	●			
Apply capitalization rules for business & social letters							●	●			
Capitalize proper adjectives											
Distinguish which school subjects to capitalize								●			

continues

● Package fulfills curriculum objective

○ Package partially fulfills curriculum objective with teacher input


IBM &
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Package
Titles
Spelling: Level II (3-4)
Spelling: Level III (5-6)
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Chariots, Cougars & Kings (3-5)
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Kittens, Kids & a Frog (1-2)
Scuffy & Friends (K-2)
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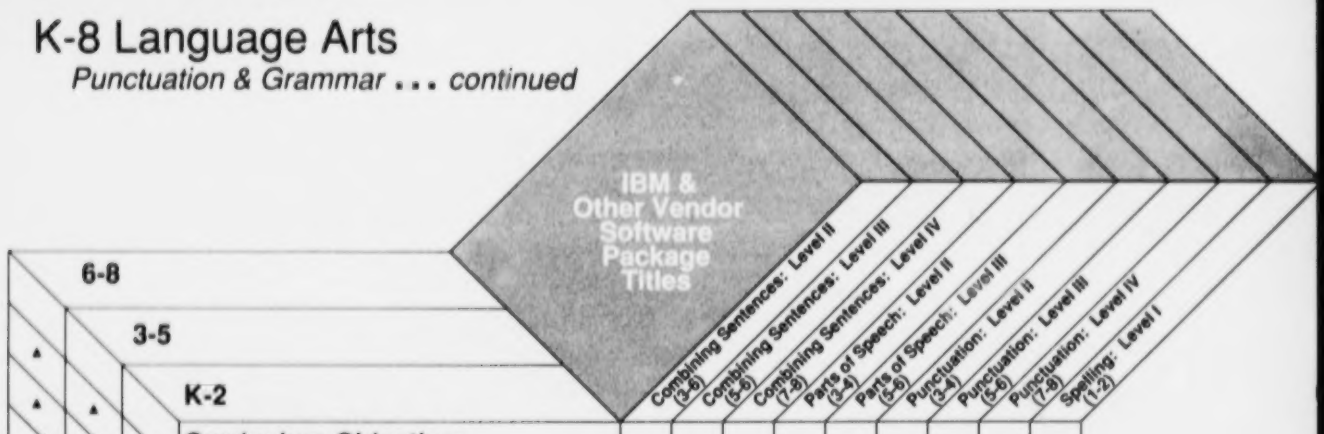
Skills Bank II: Writing Series (4-9)
Success with Writing (6-12)
Write On: Elementary Collection (3-6)
Write On: Intermediate Collection (3-9)
Write On: Primary Collection (K-4)
Write On: Secondary Collection (9-12)

K-8 Language Arts

Punctuation & Grammar . . . continued

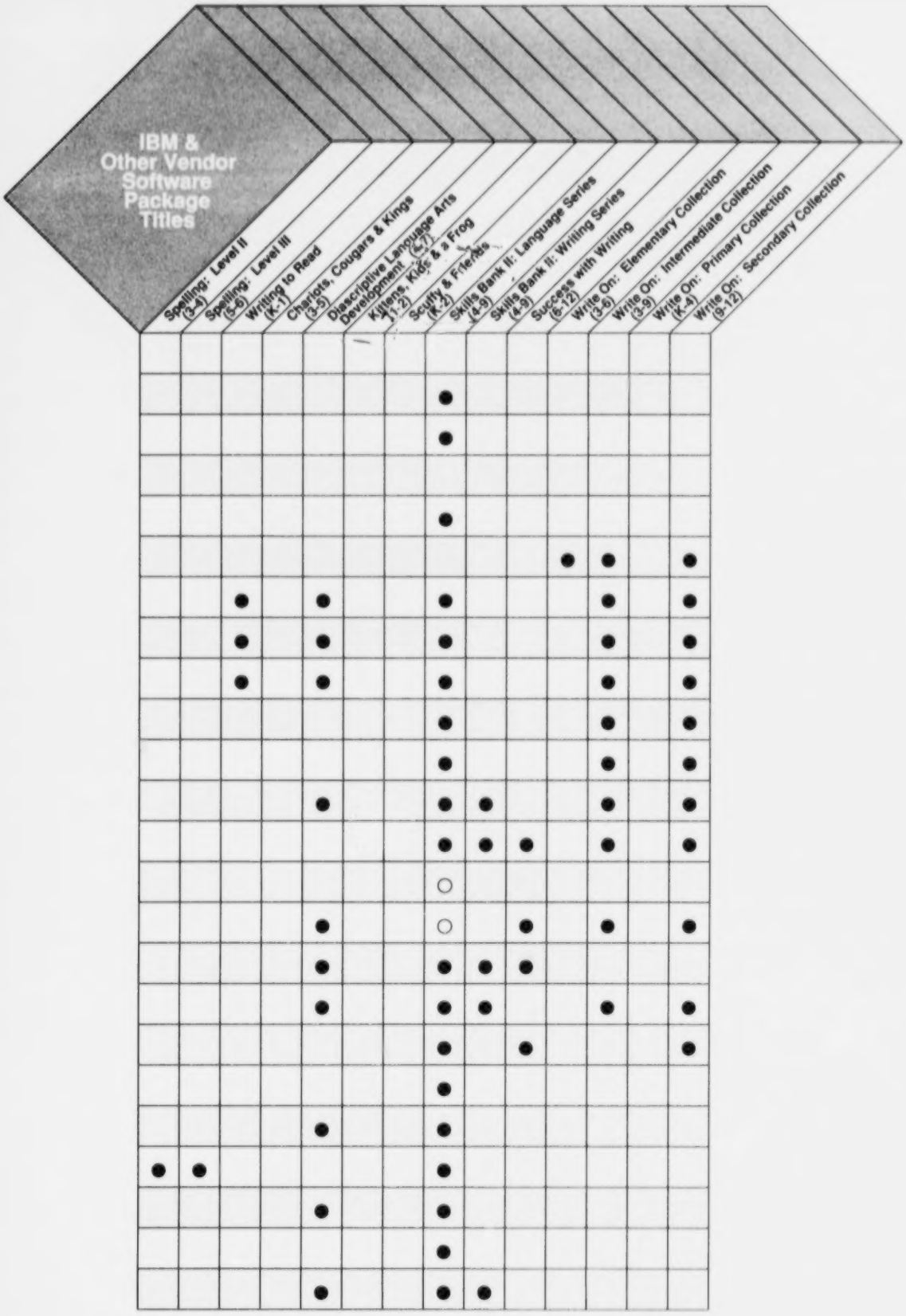


Curriculum Objectives	Combining Sentences: Level II (3-6)	Combining Sentences: Level III (5-6)	Combining Sentences: Level IV (7-8)	Parts of Speech: Level II (3-4)	Parts of Speech: Level III (5-6)	Punctuation: Level II (3-4)	Punctuation: Level III (5-6)	Punctuation: Level IV (7-8)	Spelling: Level I (1-2)
Capitalize holidays						●	●	●	
Distinguish when to capitalize parts of the country						●	●	●	
Demonstrate knowledge of proper capitalization in outlines									
Capitalize appropriate words in a title, e.g., book title						●	●	●	
Illustrate how to correctly capitalize lines of a poem									
Select correct end of sentence punctuation–period						●	●	●	
Select correct end of sentence punctuation–question mark						●	●	●	
Select correct end of sentence punctuation–exclamation point						●	●	●	
Use commas with dates						●	●	●	
Use commas correctly with addresses						●	●	●	
Use commas to separate words/phrases in a series	●	●	●			●	●	●	
Use comma correctly in greeting & closing of letter						●	●	●	
Use comma to set off proper names in direct address								●	
Use commas before coordinating conjunctions to join sentences together	●	●	●						
Use commas correctly with phrases, clauses & introductory words	○	○	○				○	●	
Use commas correctly with quotations & quoted material						●	●	●	
Use semicolons correctly to join sentences together								●	
Use semicolons with phrases in a series when needed								●	
Use apostrophes correctly to form possessive of nouns				○	○	●	●	●	
Use apostrophes correctly to form contractions						●	●	●	●
Form possessive pronouns without apostrophes				○	○				
Use periods correctly with initials & abbreviations						●	●	●	
Employ quotation marks to indicate a speaker's words						●	●	●	

continues

● Package fulfills curriculum objective

○ Package partially fulfills curriculum objective with teacher input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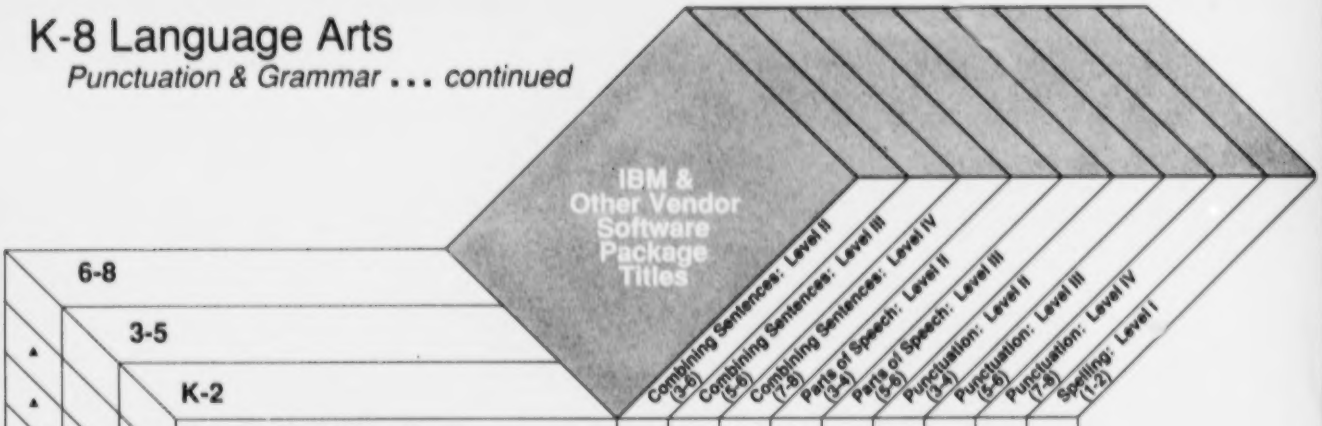
Write On: Secondary Collection (9-12)

K-8 Language Arts

Punctuation & Grammar . . . continued

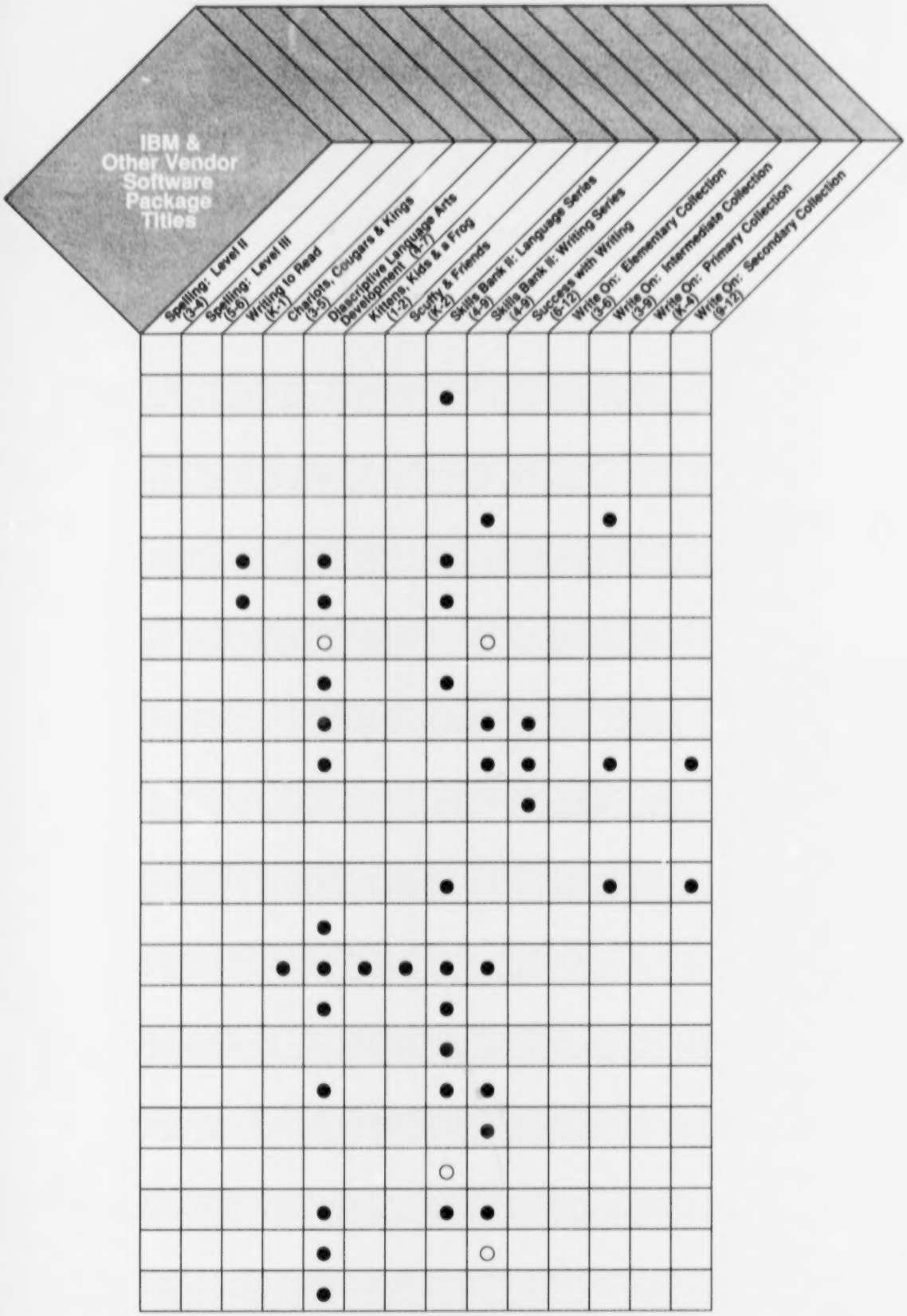

IBM & Other Vendor Software Package Titles
Combining Sentences: Level II (3-6)
Combining Sentences: Level III (5-6)
Combining Sentences: Level IV (7-8)
Parts of Speech: Level II (3-4)
Parts of Speech: Level III (5-6)
Punctuation: Level II (3-4)
Punctuation: Level III (5-6)
Punctuation: Level IV (7-8)
Spelling: Level I (1-2)
6-8
3-5
K-2

Curriculum Objectives										
Use colons correctly						●	●	●		
Use hyphens correctly						●	●	●		
Demonstrate understanding of the use of italics &/or underlining							●	●		
Punctuate personal & business letters correctly						○	○	○		
Place a period after telling sentences						●	●	●		
Place a question mark after asking sentences						●	●	●		
Illustrate the four sentence types (declarative, interrogative, etc.)										
Identify complete & incomplete sentences										
Correct sentence fragments										
Identify & correct run-on sentences										
Identify subject										
Identify predicate										
Distinguish between a simple & a compound sentence				●	●					
Identify a compound predicate				●	●					
Demonstrate ability to use verb tense correctly				●	●					
Demonstrate understanding of use of plural & singular nouns				●	●					
Identify pronoun referents										
Use verbs that agree with their subjects				○	○					
Use adjectives & adjective forms effectively & correctly				○	○					
Use prepositional phrases to add meaning										
Distinguish between standard & nonstandard use of language										
Explain double negatives as nonstandard English										
Distinguish between direct & indirect object										

continues

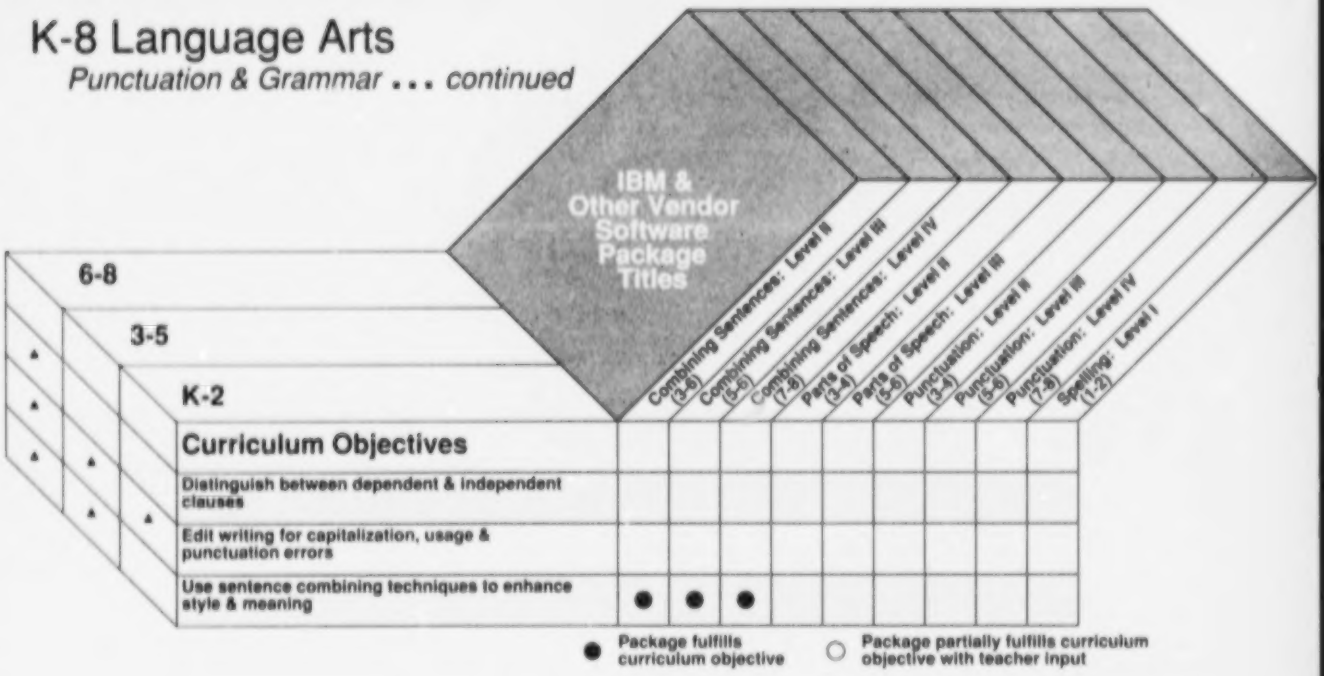
● Package fulfills curriculum objective

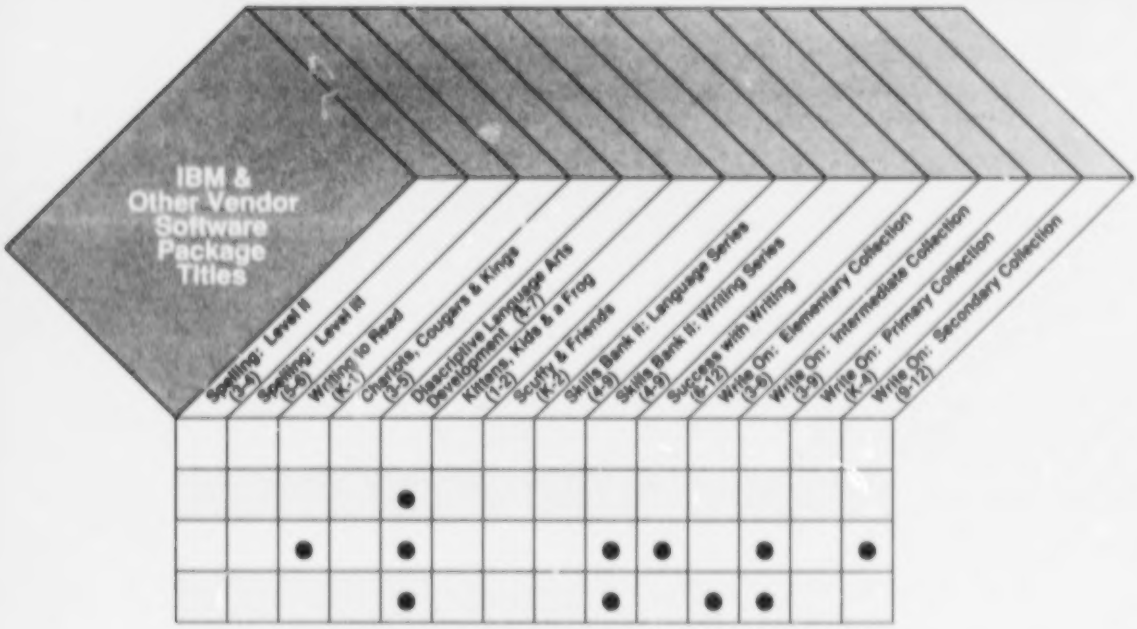
○ Package partially fulfills curriculum objective with teacher input


IBM & Other Vendor Software Package Titles
Spelling: Level II (3-4)
Spelling: Level III (5-6)
Writing to Read (K-1)
Chariots, Cougars & Kings (3-5)
Descriptive Language Arts Development (K-7)
Kittens, Kids & a Frog (1-2)
Scuffy & Friends (K-2)
Skills Bank II: Language Series (4-9)
Skills Bank II: Writing Series (4-9)
Success with Writing (6-12)
Write On: Elementary Collection (3-6)
Write On: Intermediate Collection (3-9)
Write On: Primary Collection (K-4)
Write On: Secondary Collection (9-12)

K-8 Language Arts

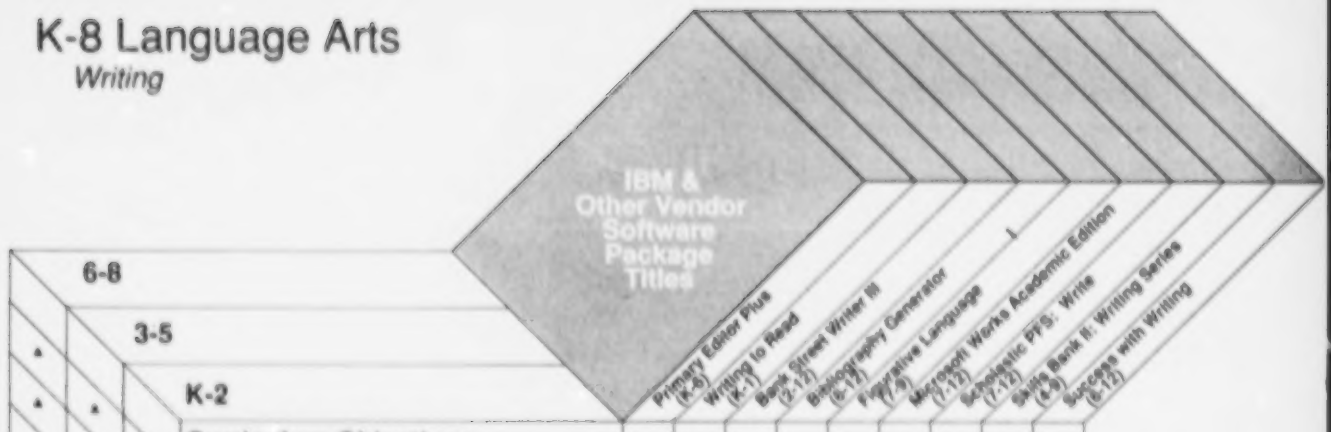
Punctuation & Grammar . . . continued


IBM & Other Vendor Software Package Titles
6-8
3-5
K-2
Curriculum Objectives
Distinguish between dependent & independent clauses
Edit writing for capitalization, usage & punctuation errors
Use sentence combining techniques to enhance style & meaning
Combining Sentences: Level II (3-6)
Combining Sentences: Level III (5-6)
Combining Sentences: Level IV (7-8)
Parts of Speech: Level II (3-4)
Parts of Speech: Level III (5-6)
Punctuation: Level II (3-4)
Punctuation: Level III (5-6)
Punctuation: Level III (7-8)
Punctuation: Level IV (7-8)
Spelling: Level I (1-2)
Package fulfills curriculum objective
Package partially fulfills curriculum objective with teacher input


IBM &
Other Vendor
Software
Package
Titles
Spelling: Level II (3-4)
Spelling: Level III (5-6)
Writing to Read (K-1)
Chariots, Cougars & Kings (3-5)
Descriptive Language Arts Development (K-7)
Kittens, Kids & a Frog (1-2)
Scuffy & Friends (K-2)
Skills Bank II: Language Series (4-9)
Skills Bank III: Writing Series (4-9)
Success with Writing (6-12)
Write On: Elementary Collection (3-6)
Write On: Intermediate Collection (3-9)
Write On: Primary Collection (K-4)
Write On: Secondary Collection (6-12)

K-8 Language Arts

Writing

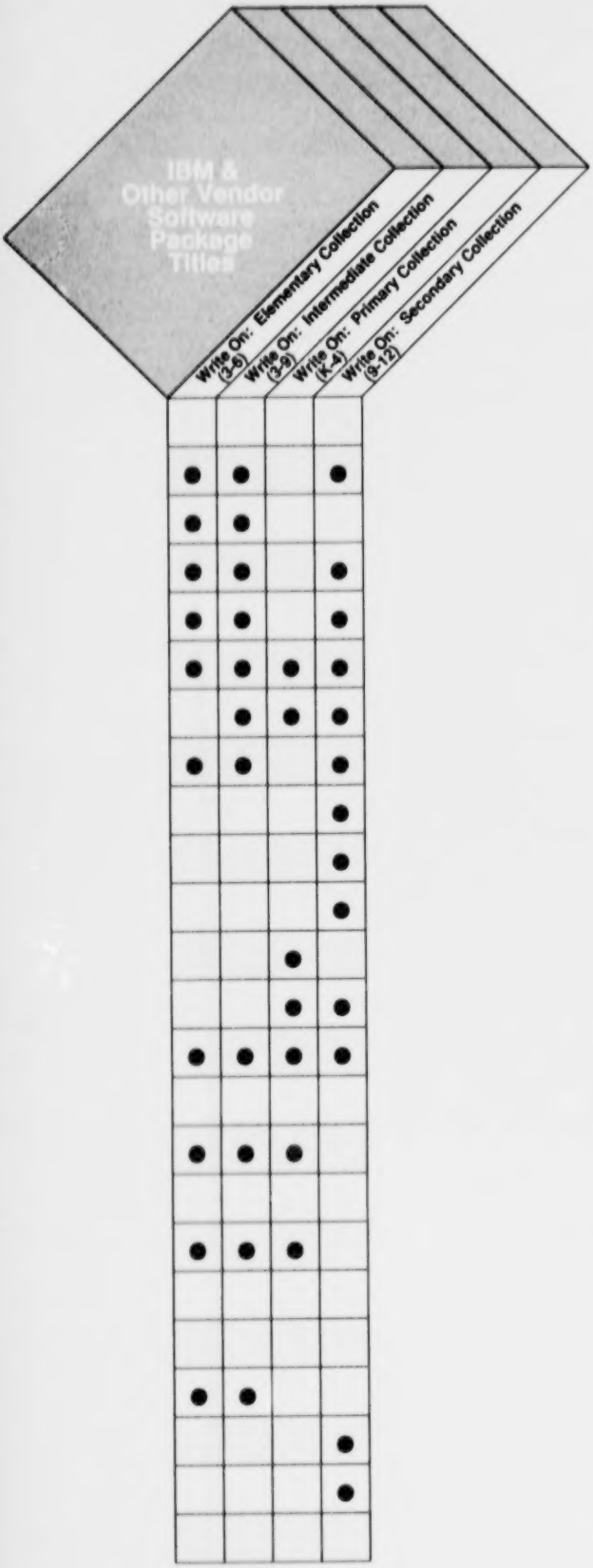


Curriculum Objectives									
Prewriting: Build ideas by observing, researching, taking notes	○		●			○		○	●
Prewriting: Build ideas through brainstorming, recalling	○		●			○		○	●
Prewriting: Build ideas through clustering, mapping, word banks	○		●			○		○	●
Prewriting: Build ideas by outlining, listing, detailing, drawing	○		●			○		○	●
Prewriting: Build ideas through journal writing, freewriting	○		●			○		○	●
Prewriting: Demonstrate sequencing ideas in space, time, logic, importance	○					○		○	●
Prewriting: Develop ideas through reasons, detail's, examples	○					○			●
Prewriting: Develop ideas through classification	○					○			●
Prewriting: Develop ideas through deductive reasoning	○					○			●
Prewriting: Develop ideas through inductive reasoning	○					○			●
Prewriting: Use a word processor or outliner for prewriting activities	●		●			●	●	○	●
Writing: Write for a variety of audiences	○		●			○		○	●
Writing: Create texts that illustrate writing for a variety of purposes	○		●			○		○	●
Writing: Create a picture book	○	●						○	
Writing: Write an original poem that incorporates devices such as rhyme, rhythm & onomatopoeia	○	●				○		○	
Writing: Write directions	○					○		○	●
Writing: Write about a personal experience	○	●	●			○		○	
Writing: Write an autobiographical sketch	○	●	●			○		○	
Writing: Write a play or a scene for a play	○	●				○		○	
Writing: Write a friendly letter	○	●				○		○	●
Writing: Write various types of business letters	○		●			○		○	●
Writing: Write an essay	○		●			○		○	●
Writing: Write a short story	○	●	●			●		○	●

continues

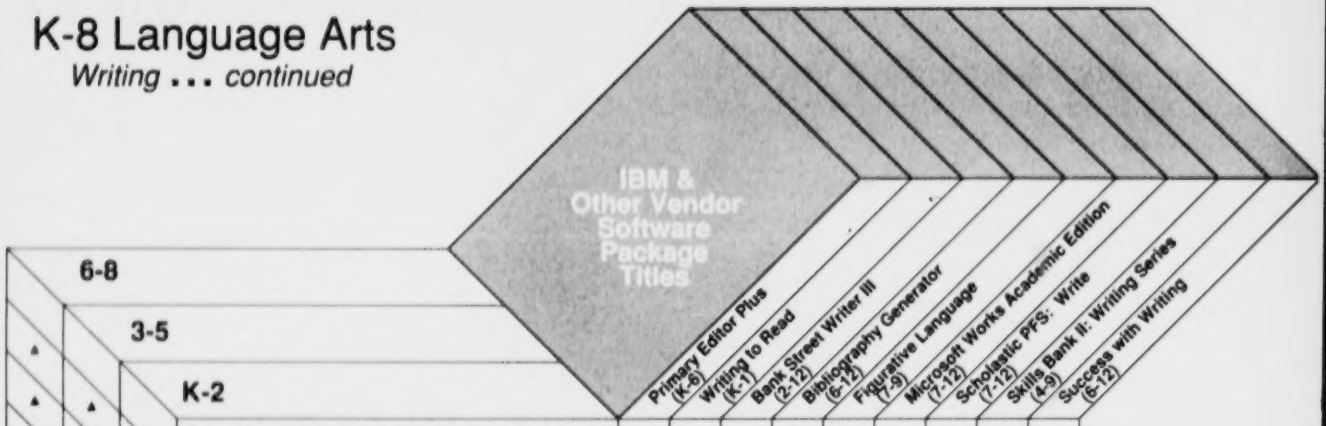
● Package fulfills curriculum objective

○ Package partially fulfills curriculum objective with teacher input


IBM &
Other Vendor
Software
Package
Titles
Write On: Elementary Collection (3-6)
Write On: Intermediate Collection (3-9)
Write On: Primary Collection (K-4)
Write On: Secondary Collection (9-12)

K-8 Language Arts

Writing . . . continued

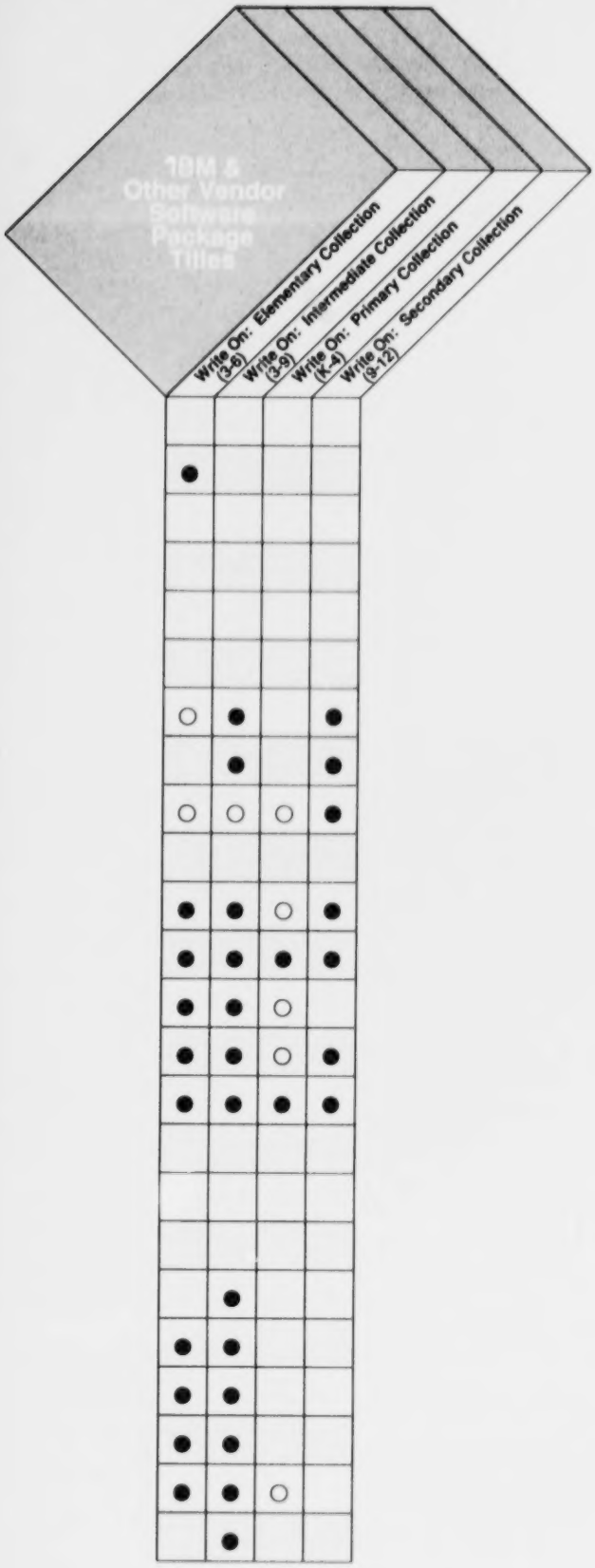


Curriculum Objectives	Primary Editor Plus (K-8)	Writing to Read (K-1)	Bank Street Writer III (2-12)	Bibliography Generator (6-12)	Figurative Language (7-9)	Microsoft Works Academic Edition (7-12)	Scholastic PFS: Write (7-12)	Skills Bank II: Writing Series (4-9)	Success with Writing (6-12)
Writing: Write a biographical sketch	○	●	●			○		○	
Writing: Write a speech	○					○		○	
Writing: Write a newspaper or magazine article	○					●		○	
Writing: Write a newspaper or magazine article review	○					○		○	
Writing: Write a research report	○			○		○		○	○
Writing: Write a literary analysis	○					○		○	●
Writing: Complete a printed form correctly	○							○	
Writing: Establish rhetorical stance through voice/tone &/or point of view	○					●		○	
Writing: Select the most effective mode, e.g., narration, description						○		○	●
Writing: Demonstrate effective word choice	○		●			○		○	●
Writing: Use figurative language effectively	○		●		○	○		○	●
Writing: Structure sentences to achieve effect desired	○					○		○	●
Writing: Select types of sentences that best convey meaning & purpose			●			○		○	●
Writing: Use a word processor to create a first draft	●	●	●			●	●	●	●
Postwriting/Revision: Participate in peer editing & oral presentations		●				○			
Postwriting/Revision: Answer readers' questions, clarify, expand as needed	○					○		○	
Postwriting/Revision: Compare with criteria & rubric & revise accordingly	○					○		○	●
Postwriting/Revision: Revise for audience	○		●			○		○	●
Postwriting/Revision: Revise for main idea	○		○			○		○	●
Postwriting/Revision: Revise for supporting details	○		○			○		○	●
Postwriting/Revision: Revise for organization	○		○			○		○	●
Postwriting/Revision: Revise for coherence	○		○			○		●	●
Postwriting/Revision: Revise for form	○		○			○		○	●

continues

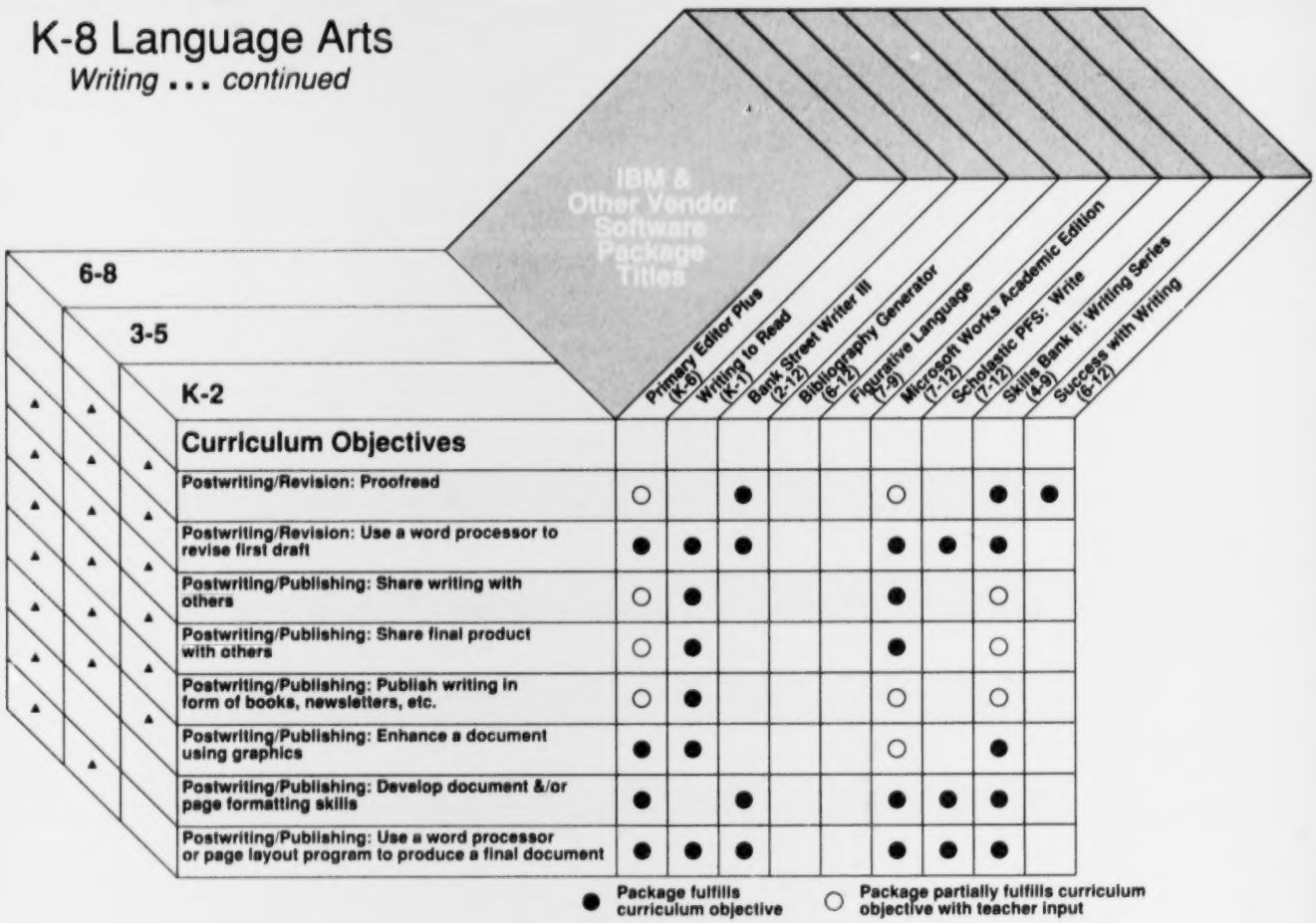
● Package fulfills curriculum objective

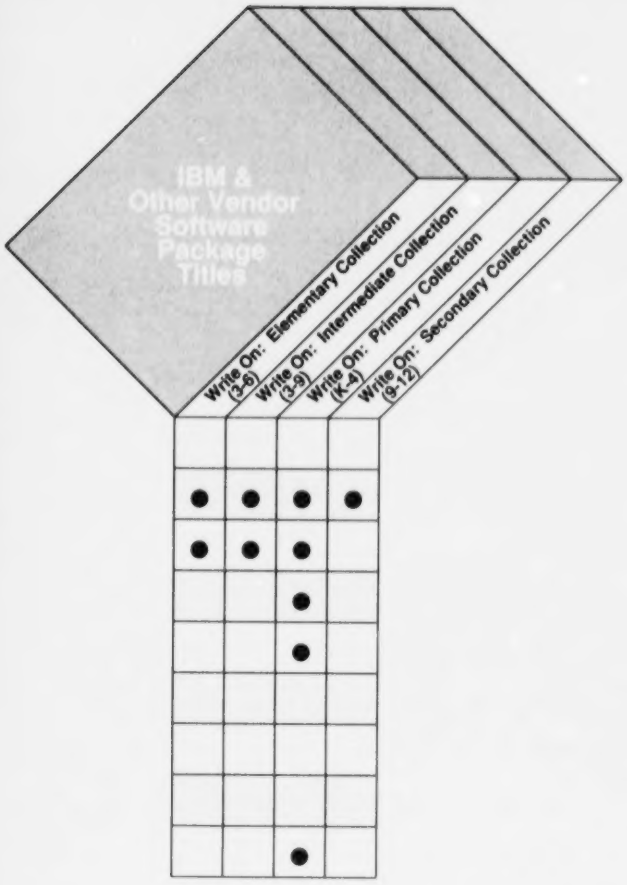
○ Package partially fulfills curriculum objective with teacher input


IBM &
Other Vendor
Software
Package
Titles
Write On: Elementary Collection (3-6)
Write On: Intermediate Collection (3-9)
Write On: Primary Collection (K-4)
Write On: Secondary Collection (9-12)

K-8 Language Arts

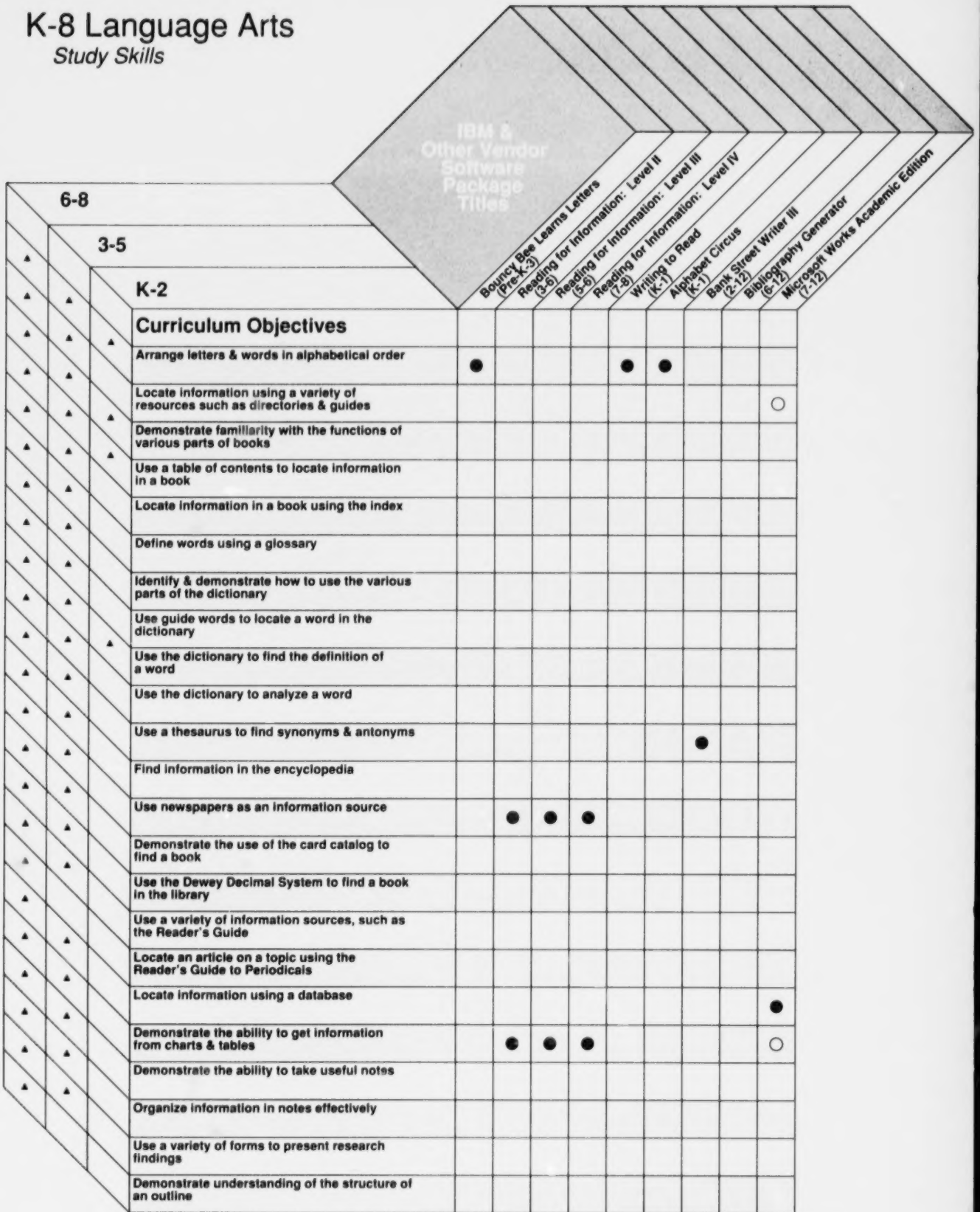
Writing . . . continued


IBM & Other Vendor Software Package Titles
6-8
3-5
K-2
Curriculum Objectives
Primary Editor Plus (K-6)
Writing to Read (K-1)
Bank Street Writer III (2-12)
Bibliography Generator (6-12)
Figurative Language (7-9)
Microsoft Works Academic Edition (7-12)
Scholastic PFS: Write (7-12)
Skills Bank II: Writing Series (4-9)
Success with Writing (6-12)
Postwriting/Revision: Proofread
Postwriting/Revision: Use a word processor to revise first draft
Postwriting/Publishing: Share writing with others
Postwriting/Publishing: Share final product with others
Postwriting/Publishing: Publish writing in form of books, newsletters, etc.
Postwriting/Publishing: Enhance a document using graphics
Postwriting/Publishing: Develop document &/or page formatting skills
Postwriting/Publishing: Use a word processor or page layout program to produce a final document
● Package fulfills curriculum objective
○ Package partially fulfills curriculum objective with teacher input


IBM &
Other Vendor
Software
Package
Titles
Write On: Elementary Collection (3-6)
Write On: Intermediate Collection (3-9)
Write On: Primary Collection (K-4)
Write On: Secondary Collection (9-12)

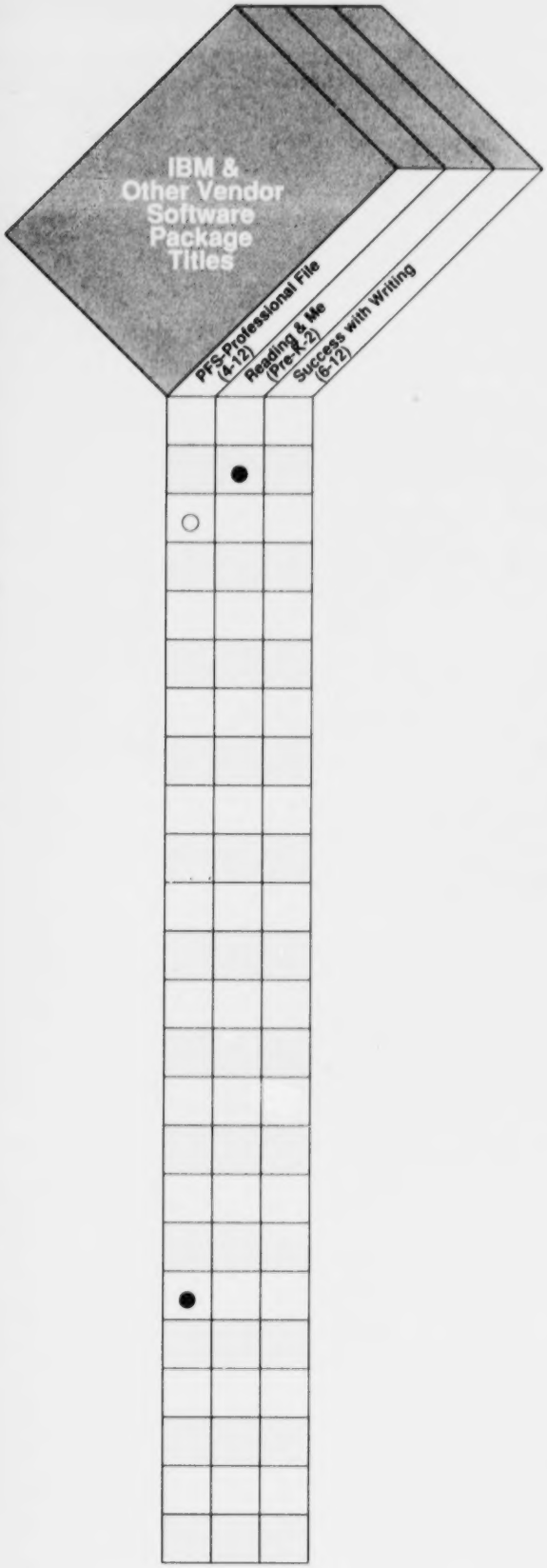
K-8 Language Arts

Study Skills


IBM & Other Vendor Software Package Titles
Bouncy Bee Learns Letters (Pre-K-3)
Reading for Information: Level II (3-6)
Reading for Information: Level III (5-6)
Reading for Information: Level IV (7-8)
Writing to Read (K-1)
Alphabet Circus (K-1)
Bank Street Writer III (2-12)
Bibliography Generator (6-12)
Microsoft Works Academic Edition (1-12)
6-8
3-5
K-2
Curriculum Objectives
Arrange letters & words in alphabetical order
Locate information using a variety of resources such as directories & guides
Demonstrate familiarity with the functions of various parts of books
Use a table of contents to locate information in a book
Locate information in a book using the index
Define words using a glossary
Identify & demonstrate how to use the various parts of the dictionary
Use guide words to locate a word in the dictionary
Use the dictionary to find the definition of a word
Use the dictionary to analyze a word
Use a thesaurus to find synonyms & antonyms
Find information in the encyclopedia
Use newspapers as an information source
Demonstrate the use of the card catalog to find a book
Use the Dewey Decimal System to find a book in the library
Use a variety of information sources, such as the Reader's Guide
Locate an article on a topic using the Reader's Guide to Periodicals
Locate information using a database
Demonstrate the ability to get information from charts & tables
Demonstrate the ability to take useful notes
Organize information in notes effectively
Use a variety of forms to present research findings
Demonstrate understanding of the structure of an outline

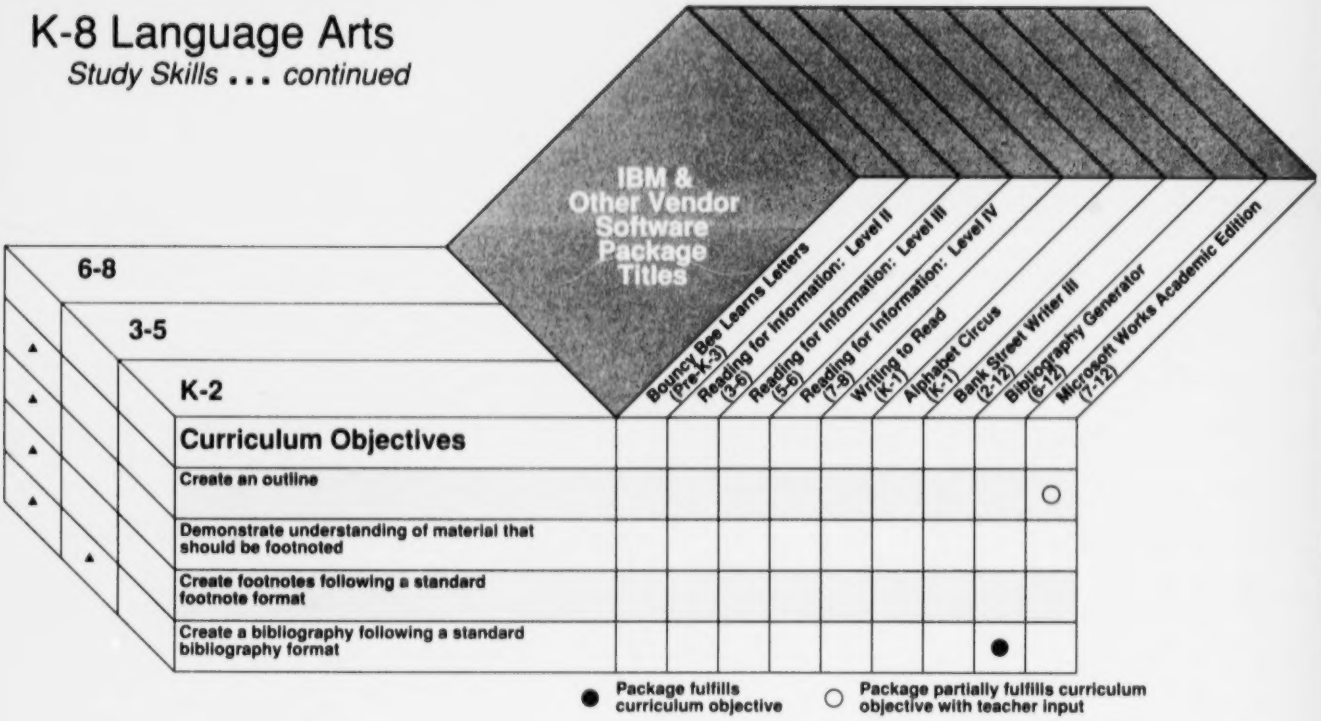
continues

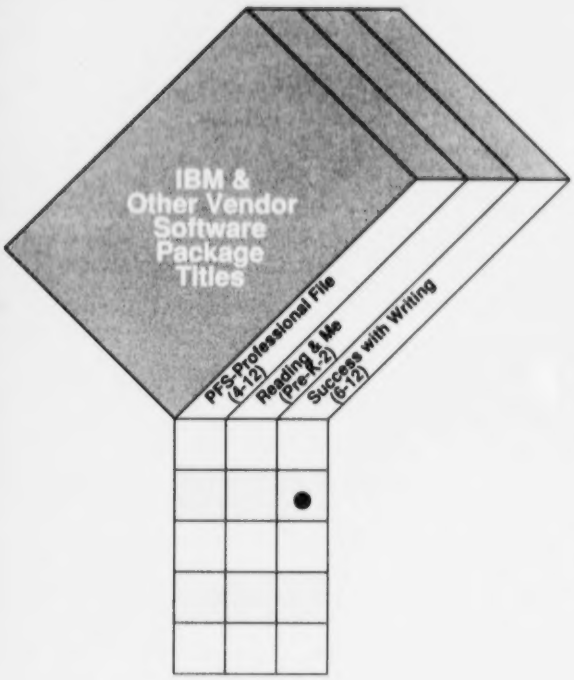
● Package fulfills curriculum objective ○ Package partially fulfills curriculum objective with teacher input


IBM &
Other Vendor
Software
Package
Titles
PFS:Professional File
(4-12)
Reading & Me
(Pre-K-2)
Success with Writing
(6-12)

K-8 Language Arts

Study Skills . . . continued

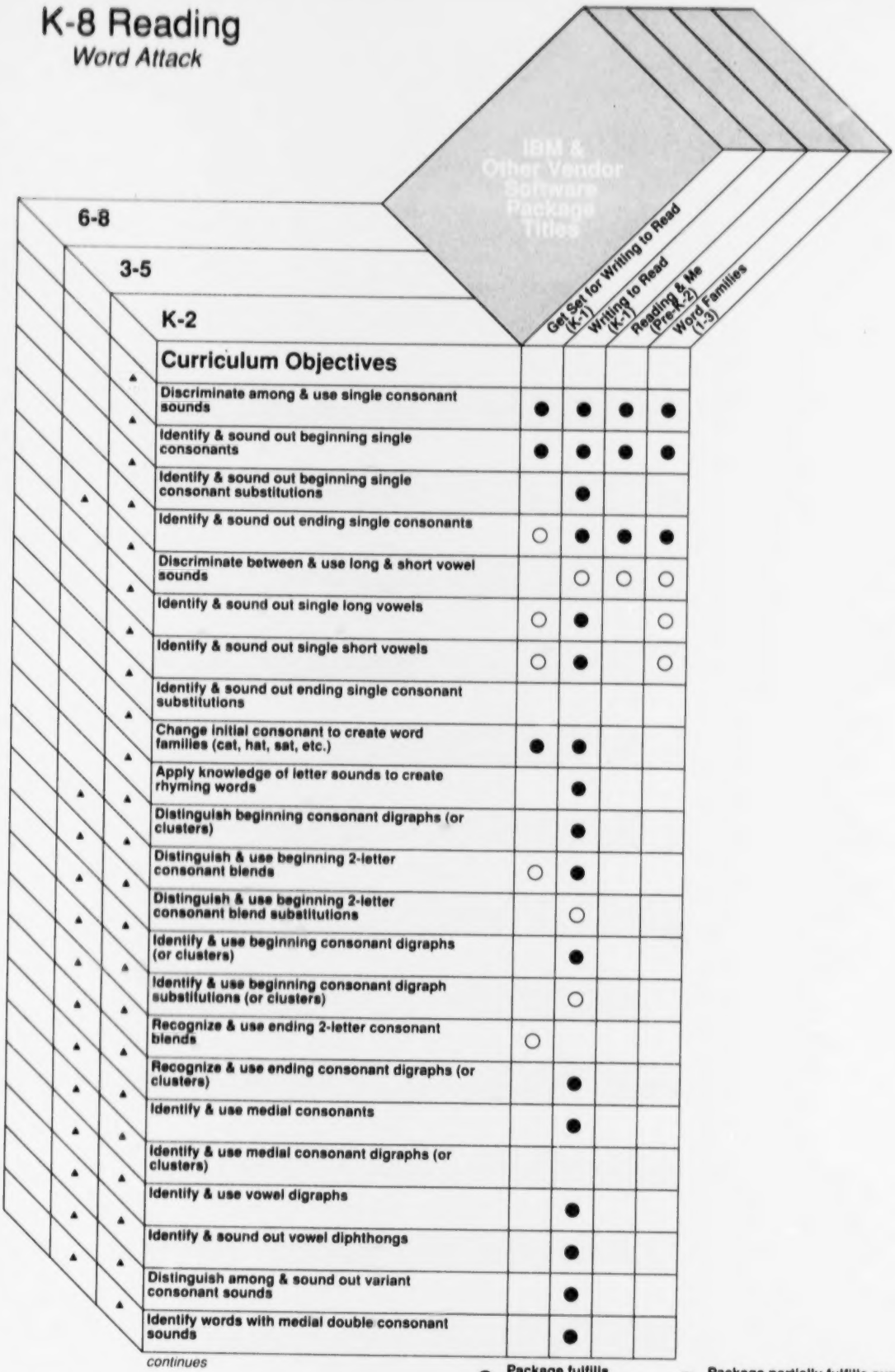

IBM & Other Vendor Software Package Titles
Bouncy Bee Learns Letters (Pre-K-3)
Reading for Information: Level II (3-6)
Reading for Information: Level III (5-6)
Reading for Information: Level IV (7-8)
Writing to Read (K-1)
Alphabet Circus (K-1)
Bank Street Writer III (2-12)
Bibliography Generator (6-12)
Microsoft Works Academic Edition (7-12)
6-8
3-5
K-2
Curriculum Objectives
Create an outline
Demonstrate understanding of material that should be footnoted
Create footnotes following a standard footnote format
Create a bibliography following a standard bibliography format
● Package fulfills curriculum objective
○ Package partially fulfills curriculum objective with teacher input


IBM &
Other Vendor
Software
Package
Titles
PFS:Professional File
(4-12)
Reading & Me
(Pre-K-2)
Success with Writing
(6-12)

Reading Matrices

K-8 Reading

Word Attack



Curriculum Objectives	Get Set for Writing to Read (K-1)	Writing to Read (K-1)	Reading & Me (Pre-K-2)	Word Families (1-3)
Discriminate among & use single consonant sounds	●	●	●	●
Identify & sound out beginning single consonants	●	●	●	●
Identify & sound out beginning single consonant substitutions		●		
Identify & sound out ending single consonants	○	●	●	●
Discriminate between & use long & short vowel sounds		○	○	○
Identify & sound out single long vowels	○	●		○
Identify & sound out single short vowels	○	●		○
Identify & sound out ending single consonant substitutions				
Change initial consonant to create word families (cat, hat, sat, etc.)	●	●		
Apply knowledge of letter sounds to create rhyming words		●		
Distinguish beginning consonant digraphs (or clusters)		●		
Distinguish & use beginning 2-letter consonant blends	○	●		
Distinguish & use beginning 2-letter consonant blend substitutions		○		
Identify & use beginning consonant digraphs (or clusters)		●		
Identify & use beginning consonant digraph substitutions (or clusters)		○		
Recognize & use ending 2-letter consonant blends	○			
Recognize & use ending consonant digraphs (or clusters)		●		
Identify & use medial consonants		●		
Identify & use medial consonant digraphs (or clusters)				
Identify & use vowel digraphs		●		
Identify & sound out vowel diphthongs		●		
Distinguish among & sound out variant consonant sounds		●		
Identify words with medial double consonant sounds		●		

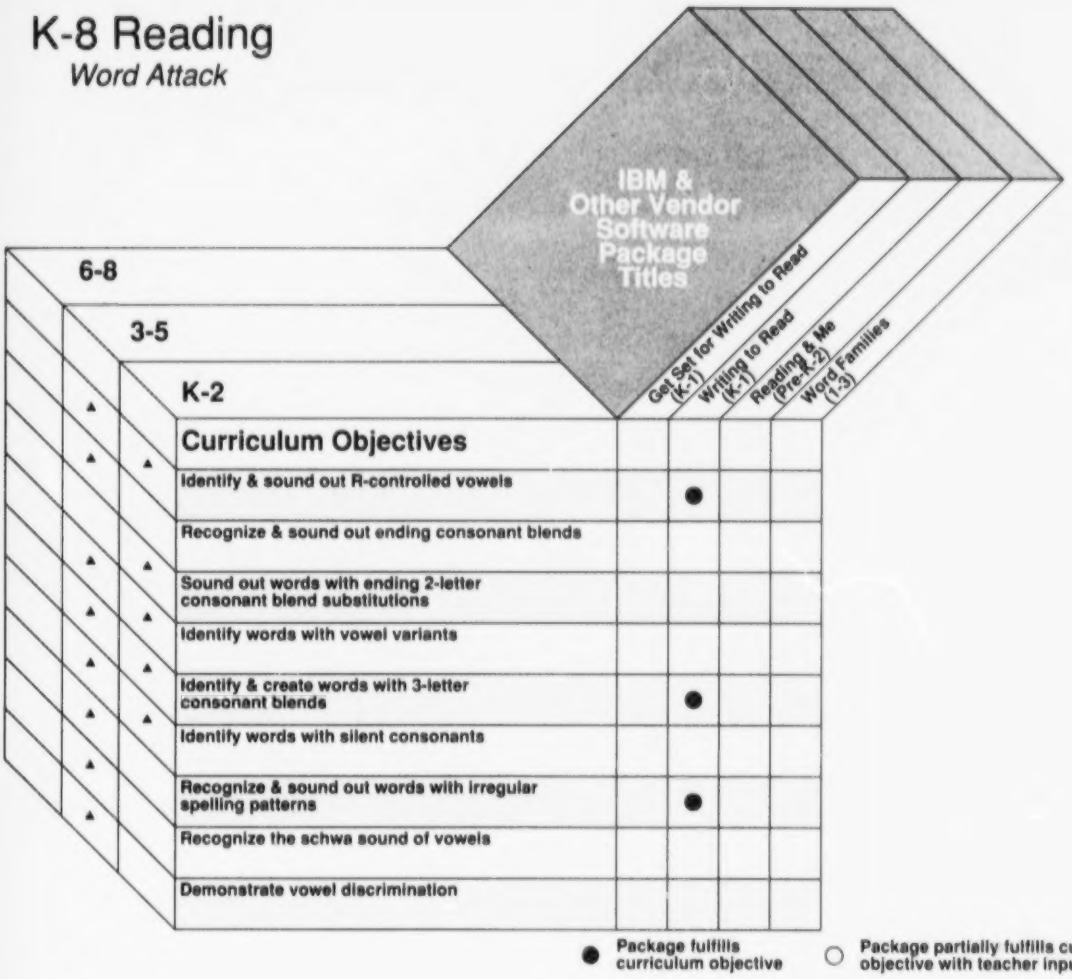
continues

● Package fulfills curriculum objective

○ Package partially fulfills curriculum objective with teacher input

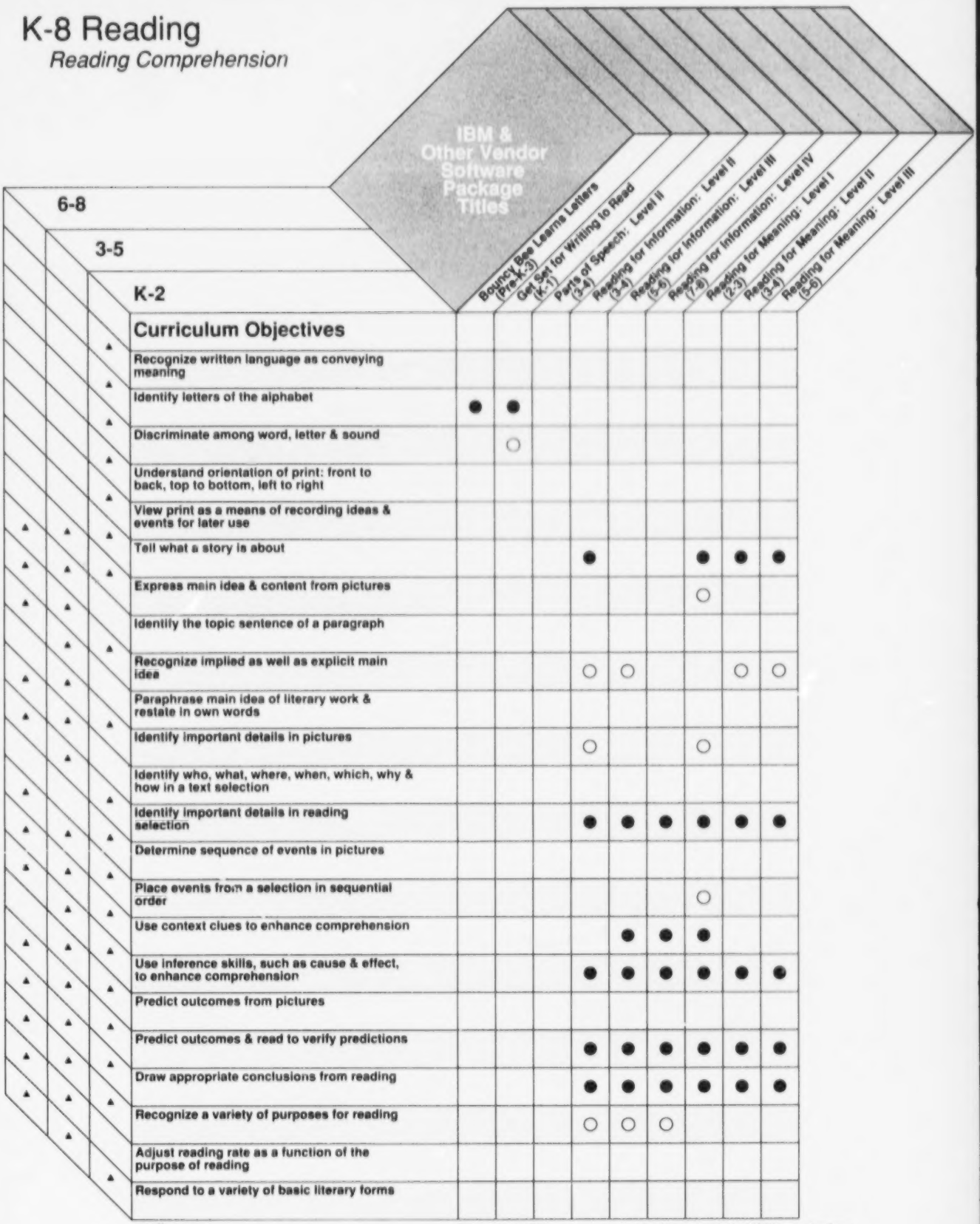
K-8 Reading

Word Attack


IBM & Other Vendor Software Package Titles
Get Set for Writing to Read (K-1)
Writing to Read (K-1)
Reading & Me (Pre-K-2)
Word Families (1-3)
6-8
3-5
K-2
Curriculum Objectives
Identify & sound out R-controlled vowels
Recognize & sound out ending consonant blends
Sound out words with ending 2-letter consonant blend substitutions
Identify words with vowel variants
Identify & create words with 3-letter consonant blends
Identify words with silent consonants
Recognize & sound out words with irregular spelling patterns
Recognize the schwa sound of vowels
Demonstrate vowel discrimination
● Package fulfills curriculum objective
○ Package partially fulfills curriculum objective with teacher input

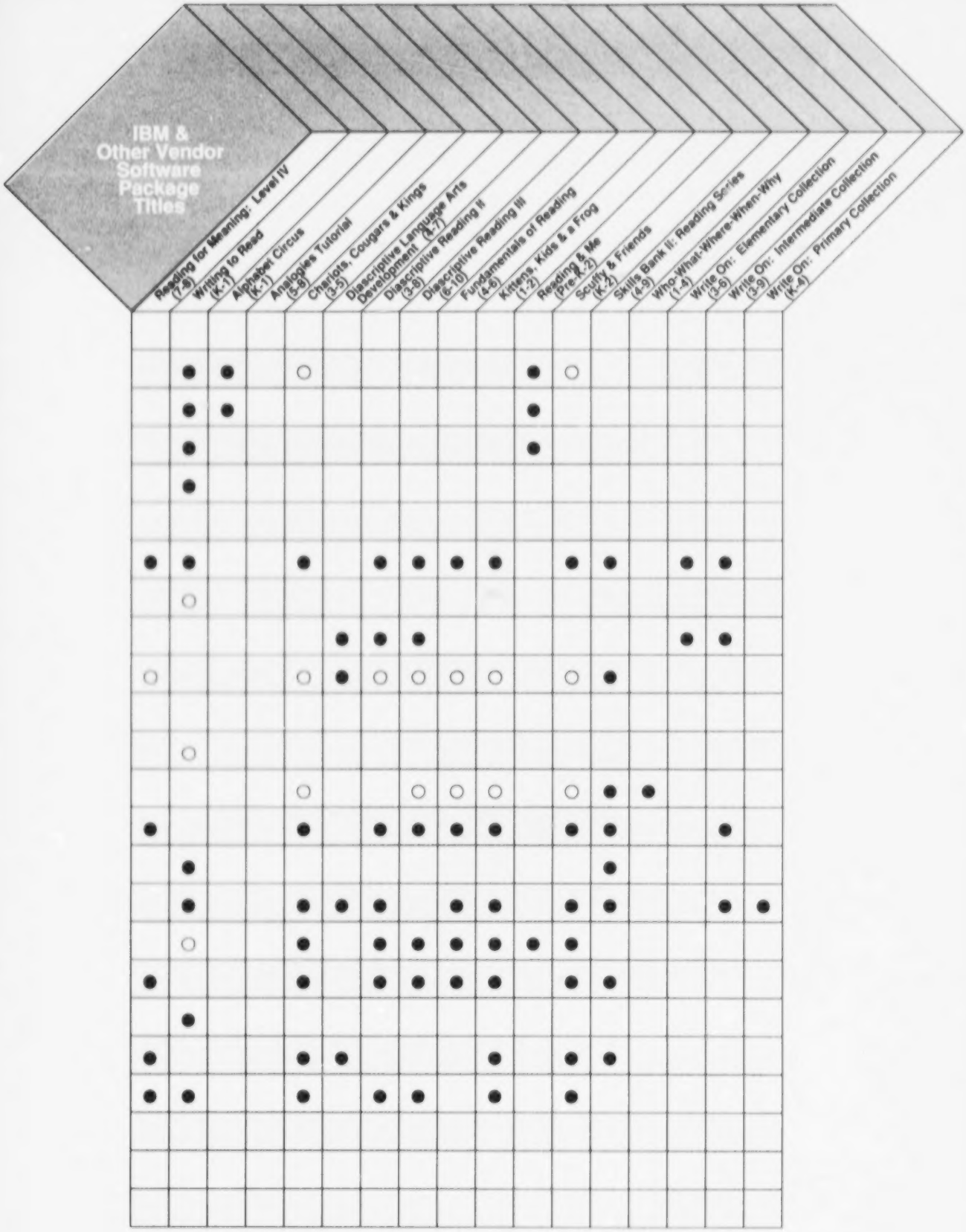
K-8 Reading

Reading Comprehension


6-8
3-5
K-2
IBM & Other Vendor Software Package Titles
Bouncy Bee Learns Letters (Pre-K-3)
Get Set for Writing to Read (K-1)
Parts of Speech: Level II (3-4)
Reading for Information: Level II (3-4)
Reading for Information: Level III (5-6)
Reading for Information: Level IV (7-8)
Reading for Meaning: Level I (2-3)
Reading for Meaning: Level II (3-4)
Reading for Meaning: Level III (5-6)
Curriculum Objectives
Recognize written language as conveying meaning
Identify letters of the alphabet
Discriminate among word, letter & sound
Understand orientation of print: front to back, top to bottom, left to right
View print as a means of recording ideas & events for later use
Tell what a story is about
Express main idea & content from pictures
Identify the topic sentence of a paragraph
Recognize implied as well as explicit main idea
Paraphrase main idea of literary work & restate in own words
Identify important details in pictures
Identify who, what, where, when, which, why & how in a text selection
Identify important details in reading selection
Determine sequence of events in pictures
Place events from a selection in sequential order
Use context clues to enhance comprehension
Use inference skills, such as cause & effect, to enhance comprehension
Predict outcomes from pictures
Predict outcomes & read to verify predictions
Draw appropriate conclusions from reading
Recognize a variety of purposes for reading
Adjust reading rate as a function of the purpose of reading
Respond to a variety of basic literary forms

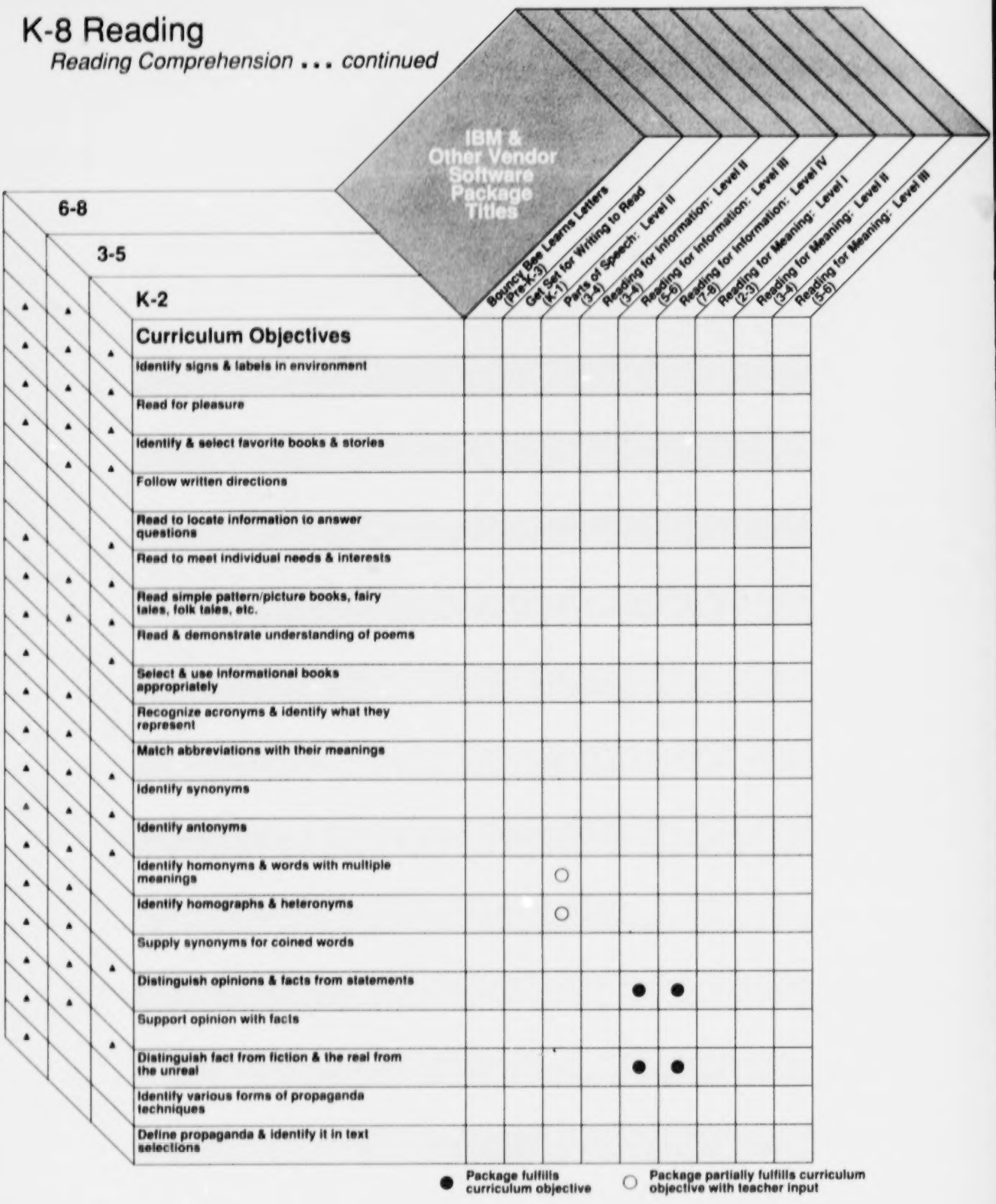
continues

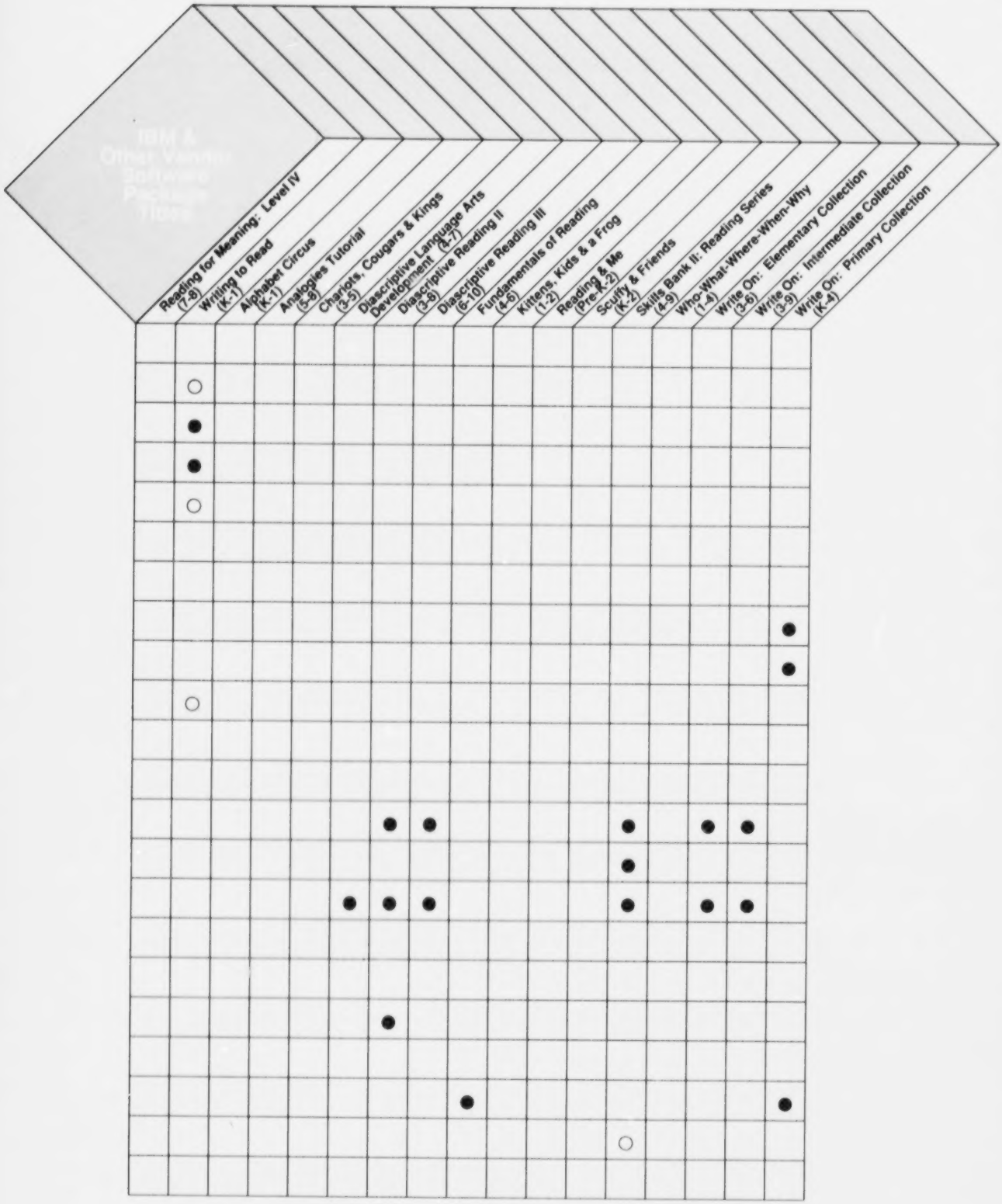
● Package fulfills curriculum objective ○ Package partially fulfills curriculum objective with teacher input


IBM &
Other Vendor
Software
Package
Titles
Reading for Meaning: Level IV (7-9)
Writing to Read (K-1)
Alphabet Circus (K-1)
Analogies Tutorial (5-9)
Chariots, Cougars & Kings (3-5)
Discriptive Language Arts Development (2-7)
Diascriptive Reading II (3-8)
Diascriptive Reading III (6-10)
Fundamentals of Reading (4-6)
Kittens, Kids & a Frog (1-2)
Reading & Me (Pre-K-2)
Scuffy & Friends (K-2)
Skills Bank II: Reading Series (4-9)
Who-What-Where-When-Why (1-4)
Write On: Elementary Collection (3-6)
Write On: Intermediate Collection (3-9)
Write On: Primary Collection (K-4)

K-8 Reading

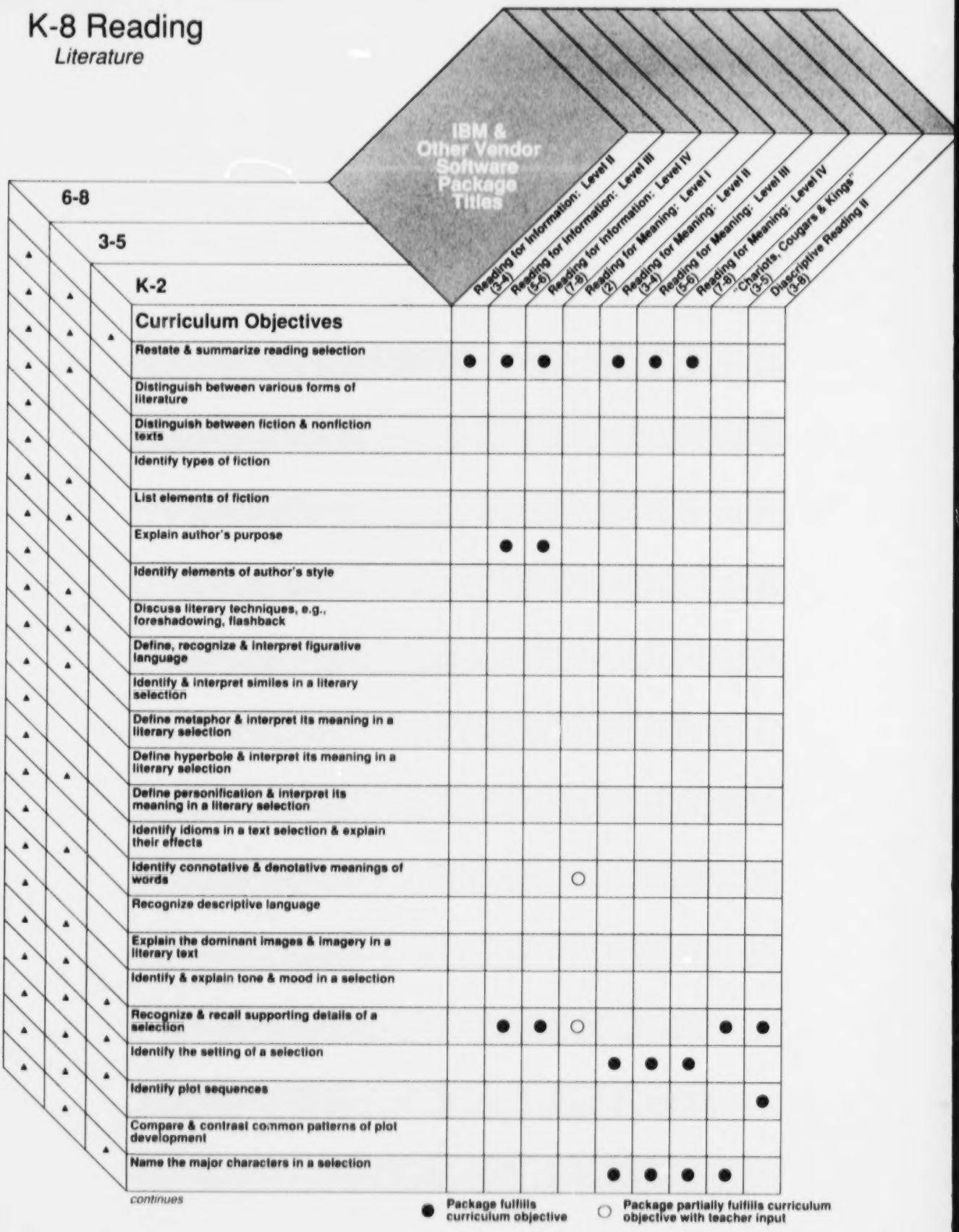
Reading Comprehension ... continued


IBM & Other Vendor Software Package Titles
Bouncy Bee Learns Letters (Pre K-3)
Get Set for Writing to Read (K-1)
Parts of Speech: Level II (3-4)
Reading for Information: Level II (3-4)
Reading for Information: Level III (5-6)
Reading for Information: Level IV (7-8)
Reading for Meaning: Level I (2-3)
Reading for Meaning: Level II (3-4)
Reading for Meaning: Level III (5-6)
6-8
3-5
K-2
Curriculum Objectives
Identify signs & labels in environment
Read for pleasure
Identify & select favorite books & stories
Follow written directions
Read to locate information to answer questions
Read to meet individual needs & interests
Read simple pattern/picture books, fairy tales, folk tales, etc.
Read & demonstrate understanding of poems
Select & use informational books appropriately
Recognize acronyms & identify what they represent
Match abbreviations with their meanings
Identify synonyms
Identify antonyms
Identify homonyms & words with multiple meanings
Identify homographs & heteronyms
Supply synonyms for coined words
Distinguish opinions & facts from statements
Support opinion with facts
Distinguish fact from fiction & the real from the unreal
Identify various forms of propaganda techniques
Define propaganda & identify it in text selections
● Package fulfills curriculum objective
○ Package partially fulfills curriculum objective with teacher input


IBM &
Other Vendors'
Software
Products
Titles
Reading for Meaning: Level IV (7-8)
Writing to Read (K-1)
Alphabet Circus (K-1)
Analogies Tutorial (5-8)
Chariots, Cougars & Kings (3-5)
Diascriptive Language Arts Development (3-7)
Diascriptive Reading II (3-8)
Diascriptive Reading III (6-10)
Fundamentals of Reading (4-6)
Kittens, Kids & a Frog (1-2)
Reading & Me (Pre-K-2)
Scuffy & Friends (K-2)
Skills Bank II: Reading Series (4-9)
Who-What-Where-When-Why (1-4)
Write On: Elementary Collection (3-6)
Write On: Intermediate Collection (3-9)
Write On: Primary Collection (K-4)

K-8 Reading

Literature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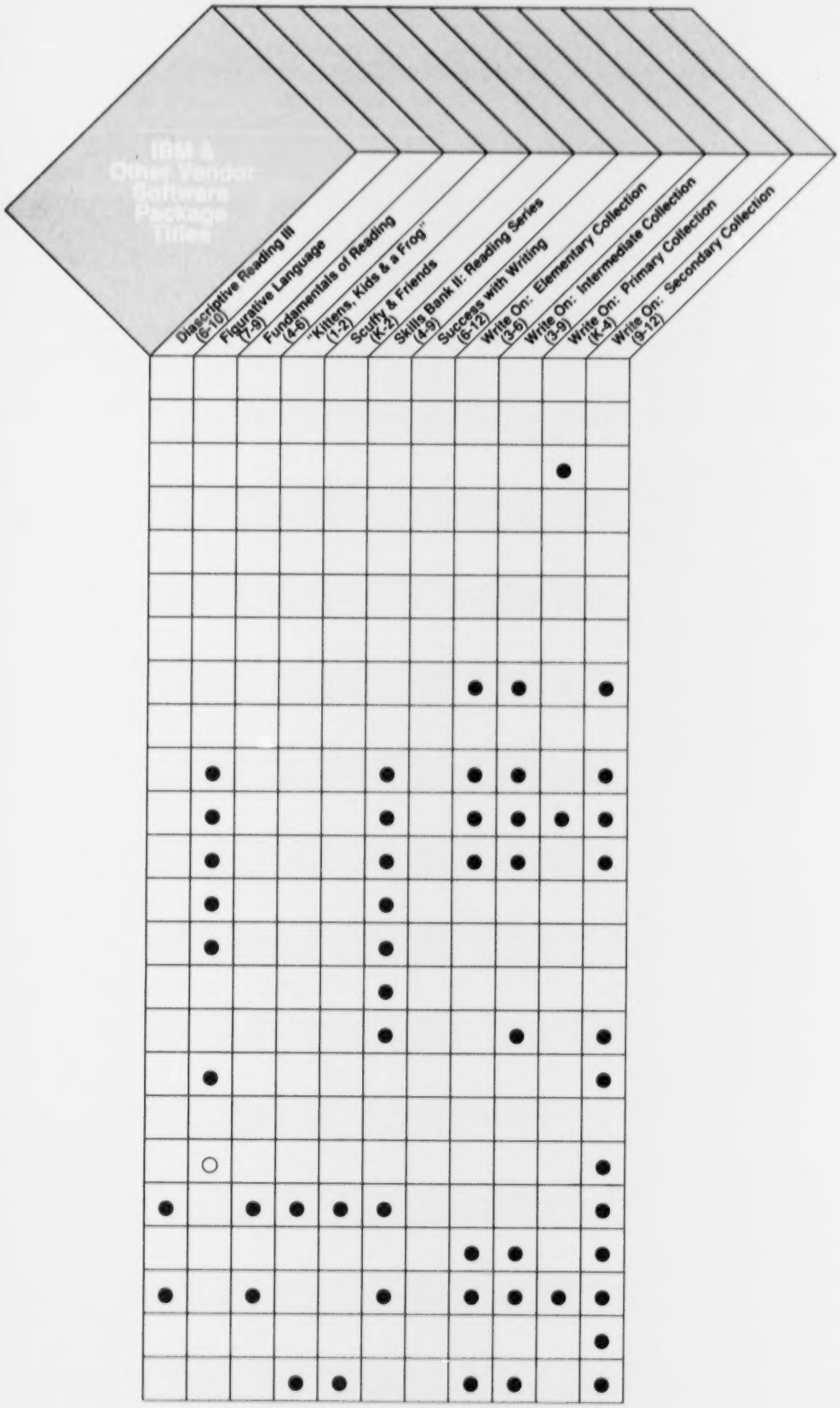
Reading for Meaning: Level I (2)
Reading for Meaning: Level II (3-4)
Reading for Meaning: Level III (5-6)
Reading for Meaning: Level IV (7-8)
"Chariots, Cougars & Kings" (3-5)
Descriptive Reading II (3-8)
6-8
3-5
K-2
Curriculum Objectives
Restate & summarize reading selection
Distinguish between various forms of literature
Distinguish between fiction & nonfiction texts
Identify types of fiction
List elements of fiction
Explain author's purpose
Identify elements of author's style
Discuss literary techniques, e.g., foreshadowing, flashback
Define, recognize & interpret figurative language
Identify & interpret similes in a literary selection
Define metaphor & interpret its meaning in a literary selection
Define hyperbole & interpret its meaning in a literary selection
Define personification & interpret its meaning in a literary selection
Identify idioms in a text selection & explain their effects
Identify connotative & denotative meanings of words
Recognize descriptive language
Explain the dominant images & imagery in a literary text
Identify & explain tone & mood in a selection
Recognize & recall supporting details of a selection
Identify the setting of a selection
Identify plot sequences
Compare & contrast common patterns of plot development
Name the major characters in a selection

continues

● Package fulfills curriculum objective

○ Package partially fulfills curriculum objective with teacher input


IBM &
Other Vendor
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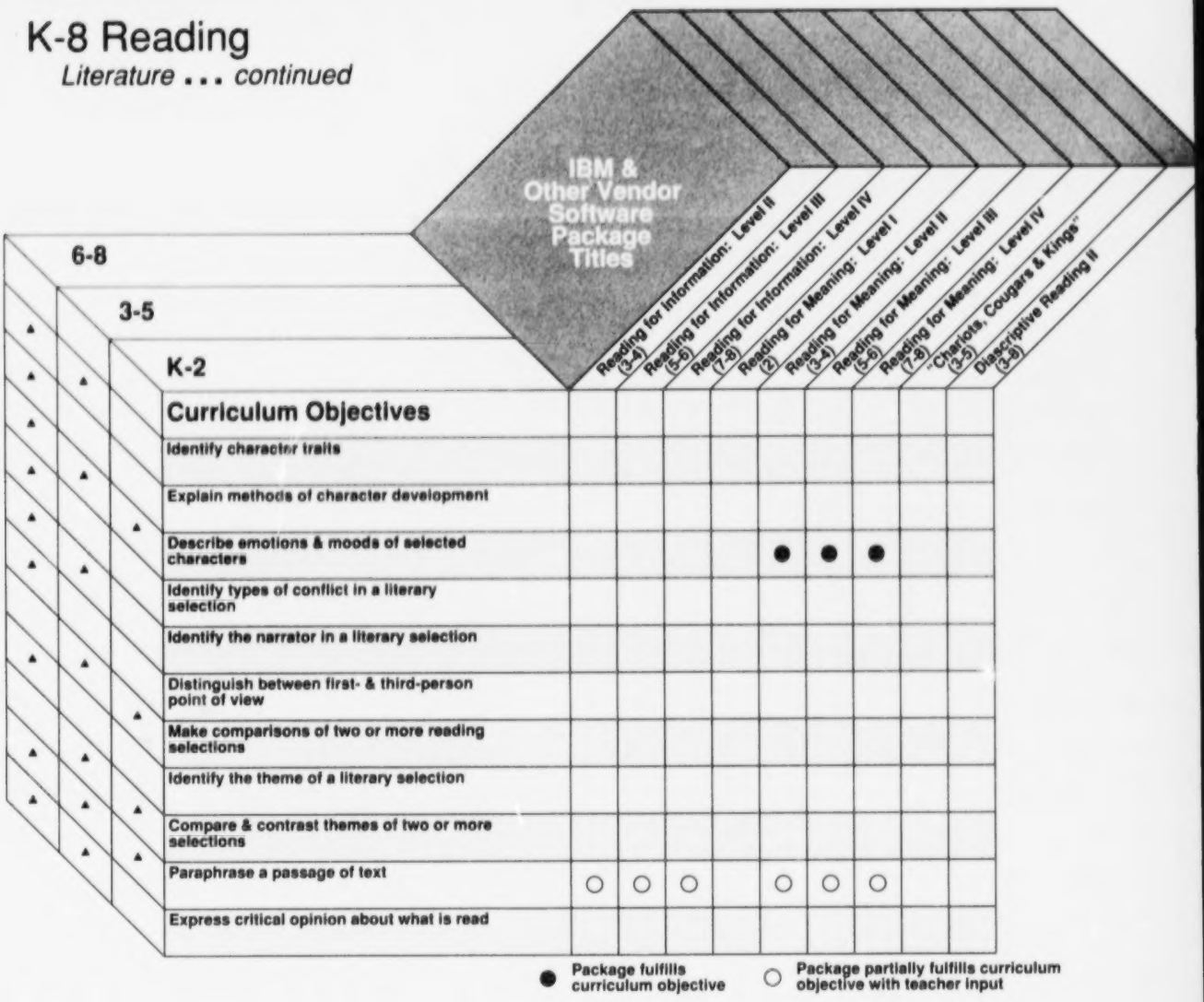
Titles
Diascriptive Reading III (6-10)
Figurative Language (7-9)
Fundamentals of Reading (4-6)
"Kittens, Kids & a Frog" (1-2)
Scuffy & Friends (K-2)
Skills Bank II: Reading Series (4-9)
Success with Writing (6-12)
Write On: Elementary Collection (3-6)
Write On: Intermediate Collection (3-9)
Write On: Primary Collection (K-4)
Write On: Secondary Collection (9-12)

K-8 Reading

Literature ... continued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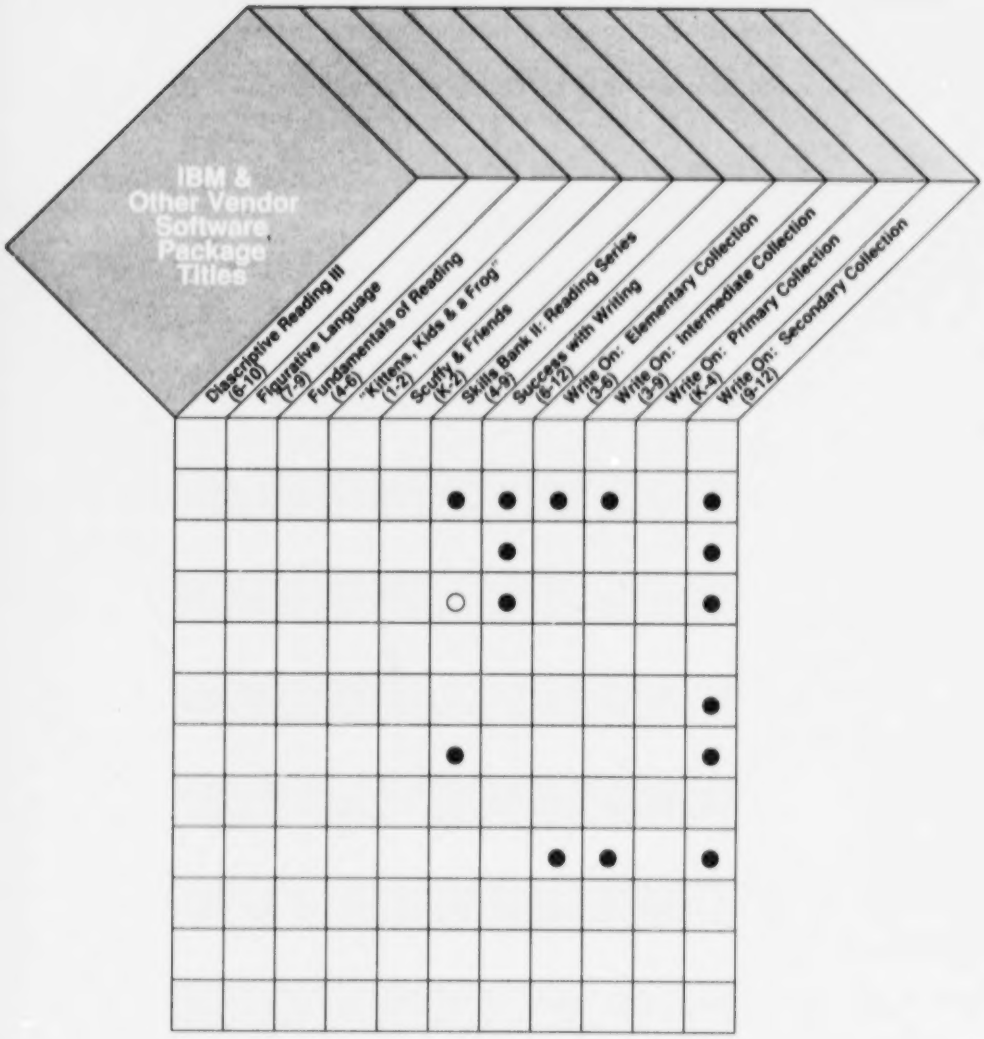
Reading for Information: Level III (5-6)
Reading for Information: Level IV (7-8)
Reading for Meaning: Level I (2)
Reading for Meaning: Level II (3-4)
Reading for Meaning: Level III (5-6)
Reading for Meaning: Level IV (7-8)
"Chariots, Cougars & Kings" (3-5)
Diascriptive Reading II (3-8)
6-8
3-5
K-2
Curriculum Objectives
Identify character traits
Explain methods of character development
Describe emotions & moods of selected characters
Identify types of conflict in a literary selection
Identify the narrator in a literary selection
Distinguish between first- & third-person point of view
Make comparisons of two or more reading selections
Identify the theme of a literary selection
Compare & contrast themes of two or more selections
Paraphrase a passage of text
Express critical opinion about what is read
● Package fulfills curriculum objective
○ Package partially fulfills curriculum objective with teacher input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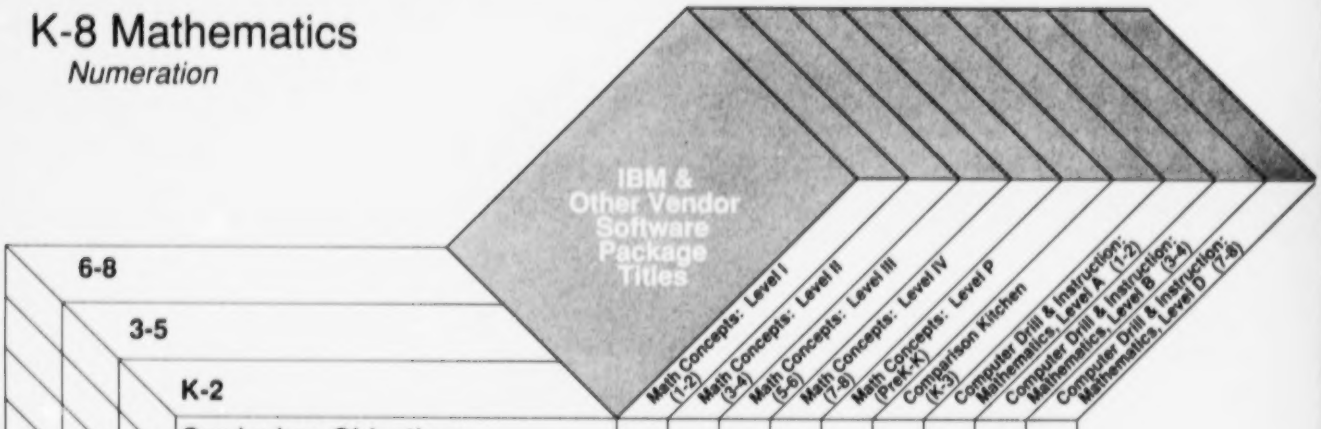
Write On: Elementary Collection (3-6)
Write On: Intermediate Collection (3-9)
Write On: Primary Collection (K-4)
Write On: Secondary Collection (9-12)

Mathematics Matrices

K-8 Mathematics

Numeration


IBM & Other Vendor Software Package Titles
6-8
3-5
K-2
Math Concepts: Level I (1-2)
Math Concepts: Level II (3-4)
Math Concepts: Level III (5-6)
Math Concepts: Level IV (7-8)
Math Concepts: Level P (PreK-K)
Comparison Kitchen (K-3)
Computer Drill & Instruction: Mathematics, Level A (1-2)
Computer Drill & Instruction: Mathematics, Level B (3-4)
Computer Drill & Instruction: Mathematics, Level D (7-8)

Curriculum Objectives									
Read numerals 1-10	●				●		●		
Read numerals for numbers 10-999	●	●							
Read numerals for numbers ≥ 1000		●	●						
Read word names for numbers 1-10	●				●		●	●	●
Read word names for numbers 10-999	●	●					○	●	●
Read word names for numbers ≥ 1000		●	●						●
Write numerals for whole numbers 1-10 written in words or spoken	●				●		●	●	
Write numerals for whole numbers 10-999 written in words or spoken	●	●					○	●	
Write numerals for whole numbers ≥ 1000 written in words or spoken		●	●						
Write word names for numbers 1-10								●	
Write word names for numbers 10-999								●	
Write word names for whole numbers ≥ 1000									
Know the values of Roman numerals									
Convert between Arabic & Roman numerals									
Know the values of Egyptian & Babylonian numerals									
Demonstrate the concept of one-to-one correspondence	○				○	●			
Demonstrate how many there are in sets of 10 or less	●				●				
Demonstrate how many there are in sets > 10	●	●					●		
Demonstrate ability to group objects into equal sets		●	●					●	
Group objects by 1s, 2s, 5s, 10s, 100s	○	●	●				●	●	
Count objects by 1s, 2s, 5s, 10s, or 100s	●	●	●		●		○		
Recognize patterns of shapes or colors	●	●	●		●	●	○	●	
Recognize number patterns							●		

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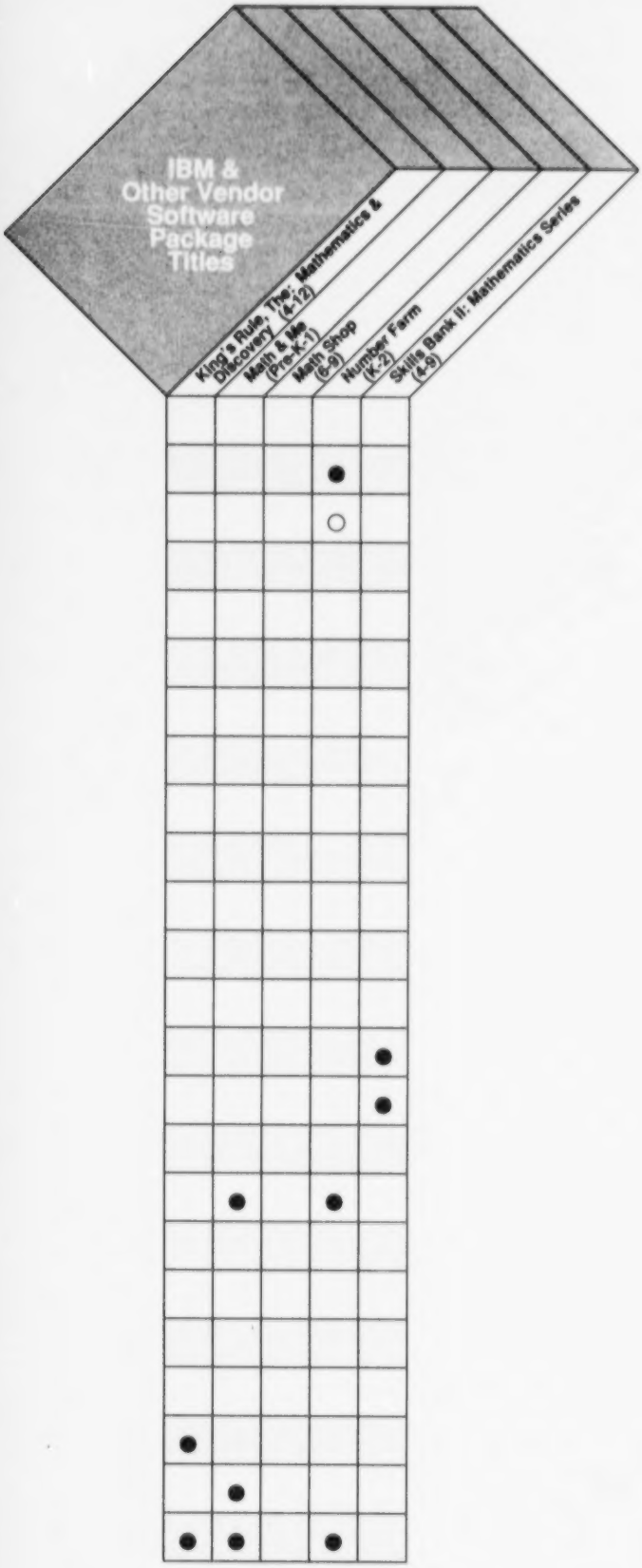
● Package fulfills curriculum objective ○ Package partially fulfills curriculum objective with teacher input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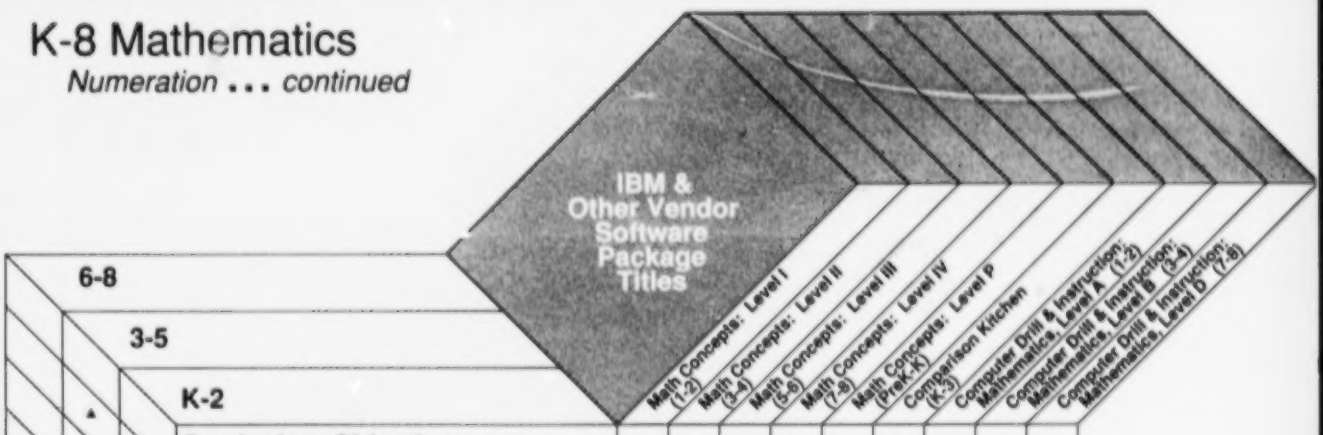
King's Rule, The: Mathematics & Discovery (4-12)
Math & Me (Pre-K-1)
Math Shop (6-9)
Number Farm (K-2)
Skills Bank II: Mathematics Series (4-9)

K-8 Mathematics

Numeration . . . continued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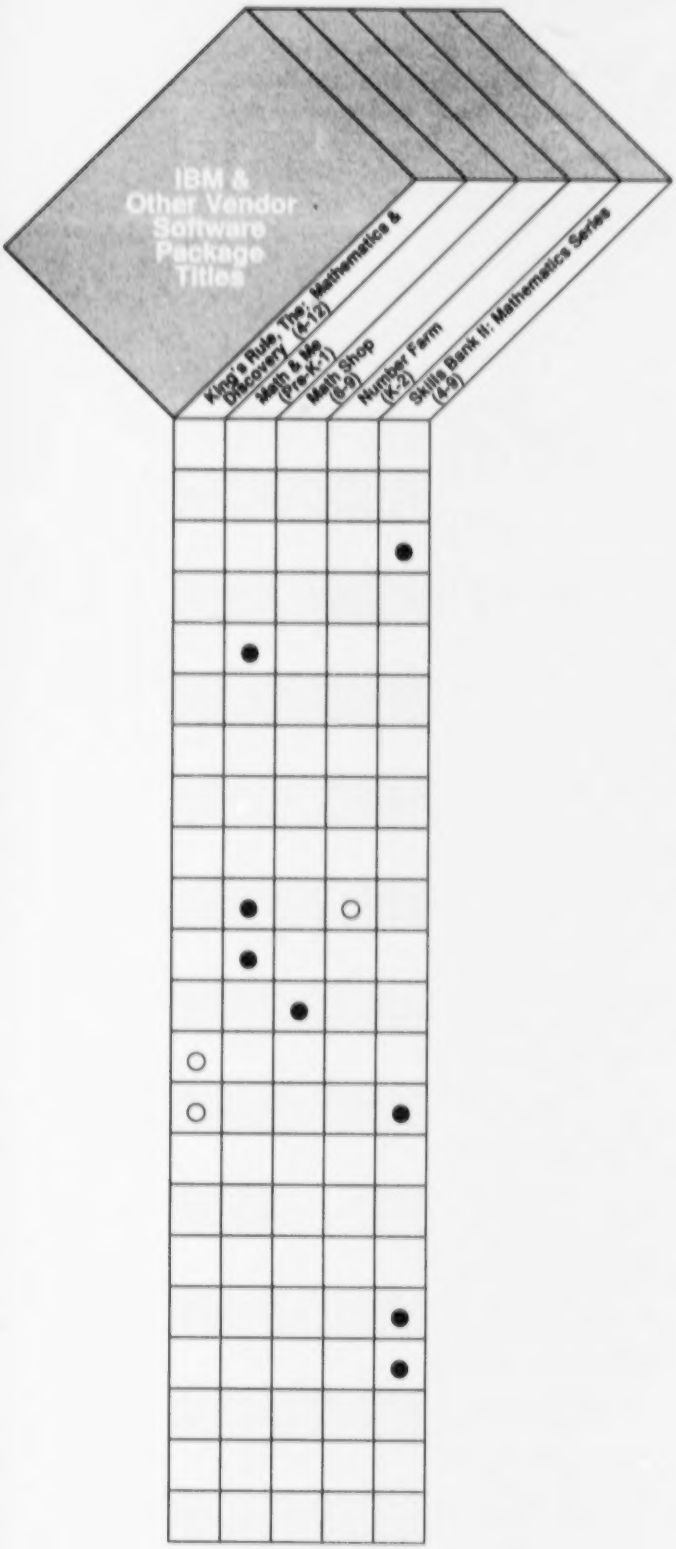
Math Concepts: Level I (1-2)
Math Concepts: Level II (3-4)
Math Concepts: Level III (5-6)
Math Concepts: Level IV (7-8)
Math Concepts: Level P (PreK-K)
Comparison Kitchen (K-3)
Computer Drill & Instruction: Mathematics, Level A (1-2)
Computer Drill & Instruction: Mathematics, Level B (3-4)
Computer Drill & Instruction: Mathematics, Level D (7-8)
6-8
3-5
K-2

Curriculum Objectives	Math Concepts: Level I (1-2)	Math Concepts: Level II (3-4)	Math Concepts: Level III (5-6)	Math Concepts: Level IV (7-8)	Math Concepts: Level P (PreK-K)	Comparison Kitchen (K-3)	Computer Drill & Instruction: Mathematics, Level A (1-2)	Computer Drill & Instruction: Mathematics, Level B (3-4)	Computer Drill & Instruction: Mathematics, Level D (7-8)
Use a calculator to discover number patterns									
Identify numbers on a number line	●	●	●	●	●				
Understand the concept of ordinal position (first, second, third, etc.)									
Identify numbers before, after & between given numbers	○	○	○		○		○	○	
Arrange three or more whole numbers in order	●	●	●		●		●	●	
List numbers in sequence to 20	●				●		○	●	
List numbers in sequence from 20 to 999	○	●						●	
List numbers ≥ 1000 in sequence		●	●						
Identify sets with more or less	●	●			●	●	○	○	
Identify the smaller/larger number of two numbers		●				●	●	●	
Use <, =, or > to compare whole numbers	○	●	●		○	○	●	●	●
Identify whole numbers as even or odd							●	●	
List consecutive even or odd numbers							●	●	
Understand the concept of place value	●	●	●				●	●	●
Give the place value of any digit in a whole number < 1000	●	●					●	●	●
Give the place value of any digit in a whole number ≥ 1000		●	●						●
Use expanded notation to write whole numbers							●	●	
Understand the concept of rounding		●	●						
Round whole numbers < 100 to the nearest 10s place		●							●
Round whole numbers < 1000 to the nearest 100s & 10s place		●							●
Round any given whole number to a given place			●	●					●

● Package fulfills curriculum objective ○ Package partially fulfills curriculum objective with teacher input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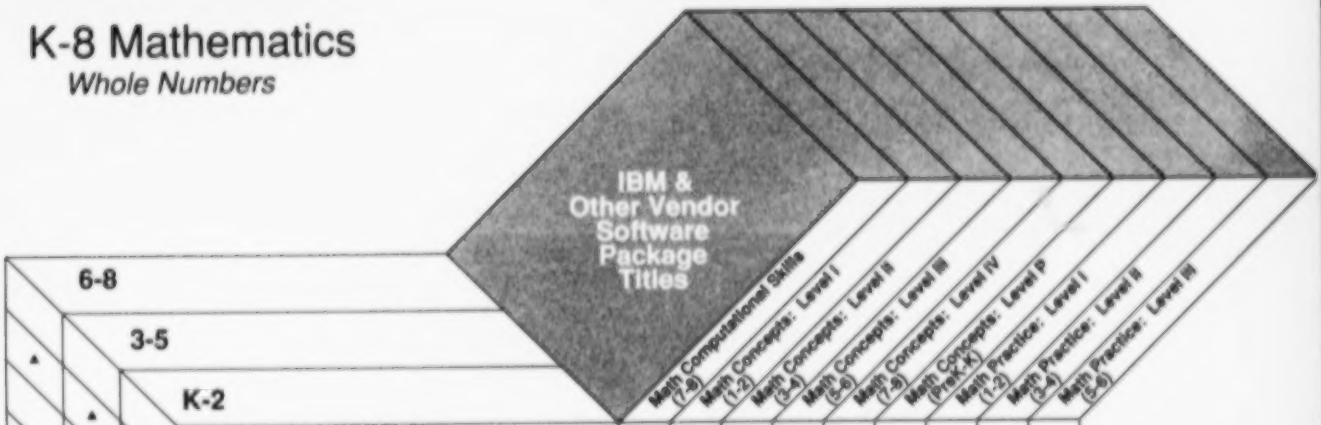
Math & Me (Pre-K-1)
Math Shop (6-9)
Number Farm (K-2)
Skills Bank II: Mathematics Series (4-9)

K-8 Mathematics

Whole Numbers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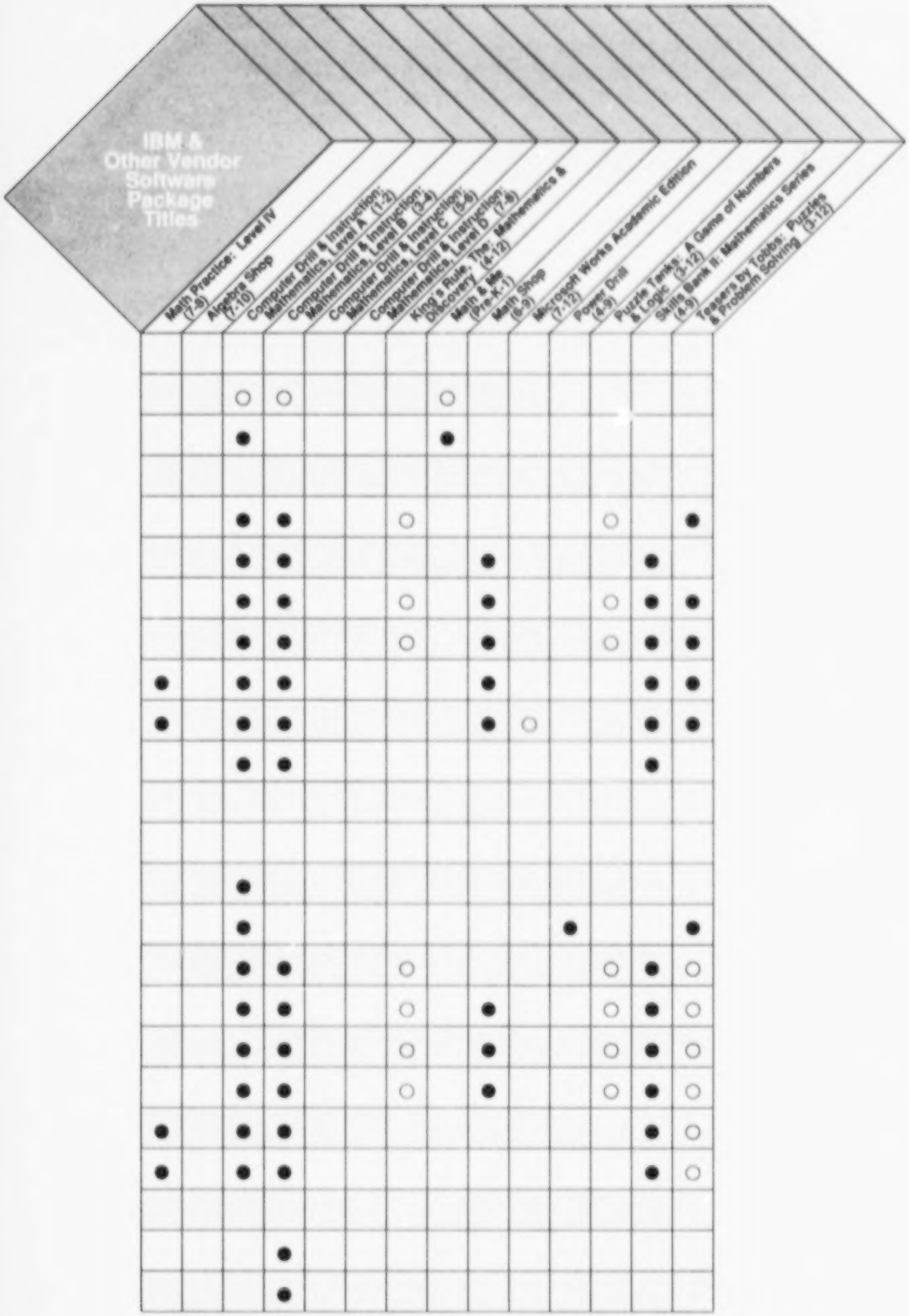
Math Concepts: Level I (1-2)
Math Concepts: Level II (3-4)
Math Concepts: Level III (5-6)
Math Concepts: Level IV (7-8)
Math Concepts: Level P (PreK-K)
Math Practice: Level I (1-2)
Math Practice: Level II (3-4)
Math Practice: Level III (5-6)
6-8
3-5
K-2

Curriculum Objectives										
Know the meaning of arithmetic symbols		●				○				
Understand addition as combining sets of objects		●				●				
Indicate addition with arrows on a number line					●					
Demonstrate knowledge of addition facts (sums to 18) from memory		●	●				●	●		
Add three or more 1-digit whole numbers										
Add a 1-digit number to a 2-digit or larger number with no regrouping		●	●				●	●		
Add a 1-digit number to a 2-digit or larger number with regrouping		●	●				●	●		
Add two 2-digit or larger whole numbers with no regrouping	●	●	●	●			●	●	●	
Add two 2-digit or larger whole numbers with regrouping	●	●	●	●	●		●	●	●	
Add three or more 2-digit or larger whole numbers	●									
Add whole numbers that are powers of 10										
Check addition by repeating addition in reverse order	●									
Understand subtraction as removing like objects from a set		●				●				
Demonstrate understanding that addition & subtraction are inverse operations		○	○	○	●	○				
Demonstrate knowledge of subtraction facts (sums to 18) from memory		●	●				●	●		
Subtract a 1-digit number from a 2-digit or larger whole number with no regrouping		●	●				●	●		
Subtract two 2-digit or larger whole numbers with no regrouping	●	●	●				●	●		
Subtract a 1-digit number from a 2-digit or larger whole number with single regrouping	●	●	●				●	●		
Subtract two 2-digit or larger whole numbers with single regrouping	●	●	●	●	●		●	●	●	
Subtract two 2-digit or larger whole numbers with multiple regrouping	●	●	●	●	●		●	●	●	
Check subtraction using addition	●									
Understand multiplication as repeated addition		●	●							
Multiply by adding equal sets		●	●							

continues

● Package fulfills curriculum objective

○ Package partially fulfills curriculum objective with teacher input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Algebra Shop (7-10)
Computer Drill & Instruction: Mathematics, Level A (1-2)
Computer Drill & Instruction: Mathematics, Level B (3-4)
Computer Drill & Instruction: Mathematics, Level C (5-6)
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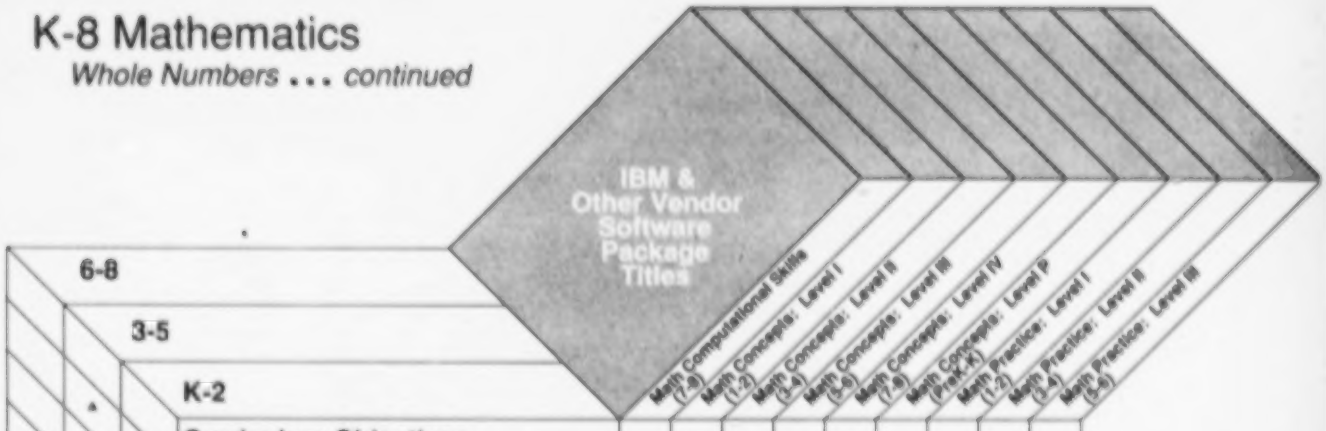
Teasers by Tobbs: Puzzles & Problem Solving (3-12)

K-8 Mathematics

Whole Numbers . . . continued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Math Practice: Level II (3-4)
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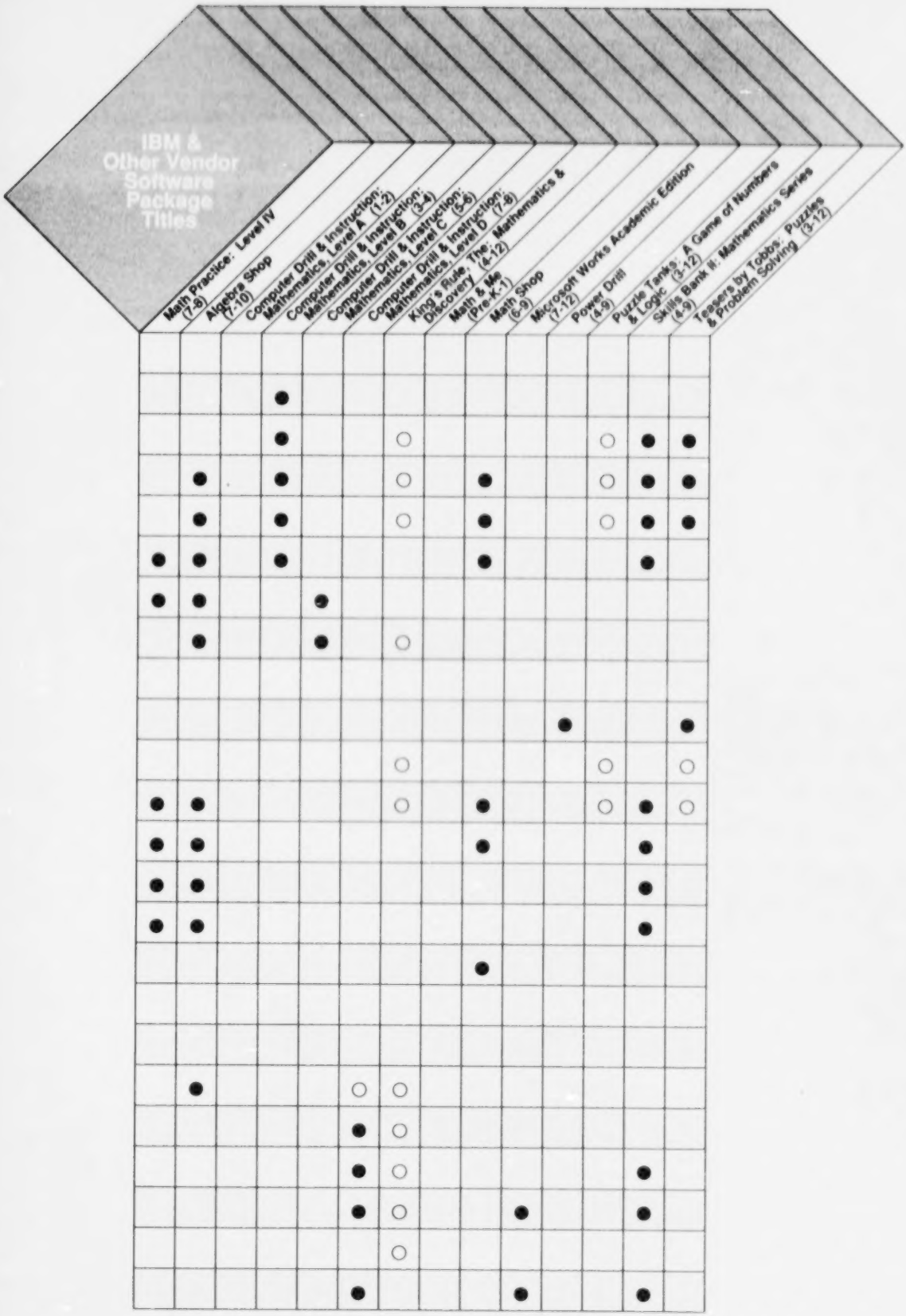
6-8
3-5
K-2

Curriculum Objectives	Math Computational Skills (7-8)	Math Concepts: Level I (1-2)	Math Concepts: Level II (3-4)	Math Concepts: Level III (5-6)	Math Concepts: Level IV (7-8)	Math Concepts: Level P (PreK-K)	Math Practice: Level I (1-2)	Math Practice: Level II (3-4)	Math Practice: Level III (5-6)
Multiply using groupings in arrays		●	●	●					
Demonstrate knowledge of multiplication facts (1-digit whole numbers) from memory		●	●	●				●	
Multiply a 2-digit whole number by a 1-digit whole number < 5			●					●	
Multiply a 2-digit or larger whole number by a 1-digit whole number			●	●	●			●	●
Multiply a 2-digit whole number by a 2-digit or larger whole number	●		●	●	●			●	●
Multiply two 3-digit or larger whole numbers	●								●
Multiply a whole number by a power of 10									
Understand division as repeated subtraction			●						
Demonstrate understanding that multiplication & division are inverse operations		○	○	○	●				
Demonstrate knowledge of division facts (1-digit quotients) from memory			●	●				●	
Divide a number by a 1-digit whole number with no remainder	●		●	●	●			●	●
Divide a number by a 1-digit whole number with remainder	●		●	●	●			●	●
Divide a number by a 2-digit or larger whole number with no remainder	●				●			●	●
Divide a number by a 2-digit or larger whole number with remainder	●				●			●	●
Divide a whole number & express the remainder as a fraction									
Use multiplication & addition to check division	●								
Use a calculator to check whole number calculations									
Find the square or cube of a given perfect square or cube									
Demonstrate raising a whole number to a given power					●				
Find the multiples of a given whole number									
Find the factors of a given whole number									
Perform divisibility tests on a given whole number									
Identify whether a given whole number is prime or composite									

continues

● Package fulfills curriculum objective

○ Package partially fulfills curriculum objective with teacher input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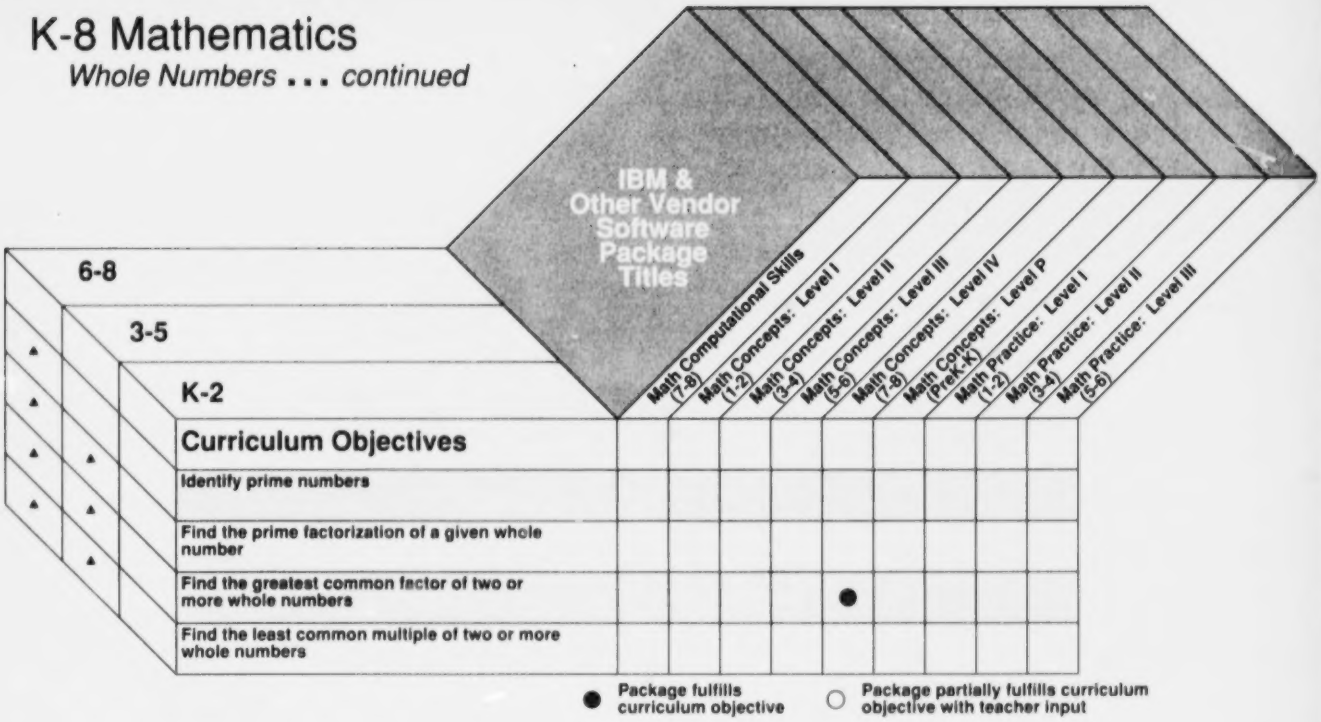
K-8 Mathematics

Whole Numbers . . . continued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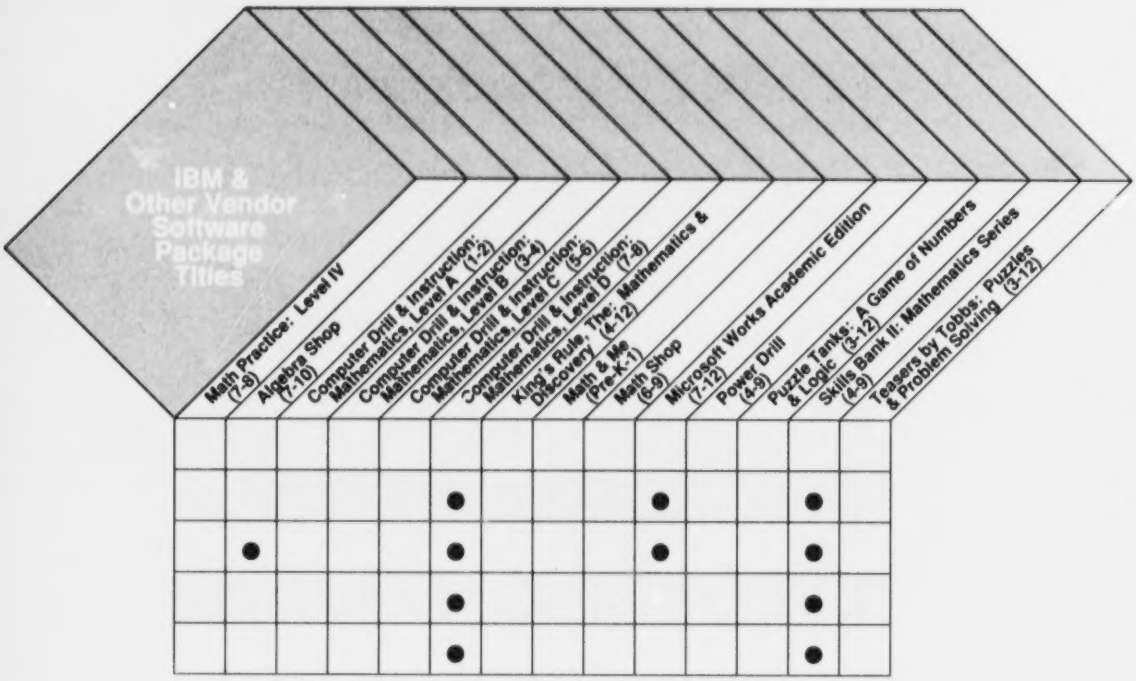
Math Practice: Level I (1-2)
Math Practice: Level II (3-4)
Math Practice: Level III (5-6)
6-8
3-5
K-2
Curriculum Objectives
Identify prime numbers
Find the prime factorization of a given whole number
Find the greatest common factor of two or more whole numbers
Find the least common multiple of two or more whole numbers
● Package fulfills curriculum objective
○ Package partially fulfills curriculum objective with teacher input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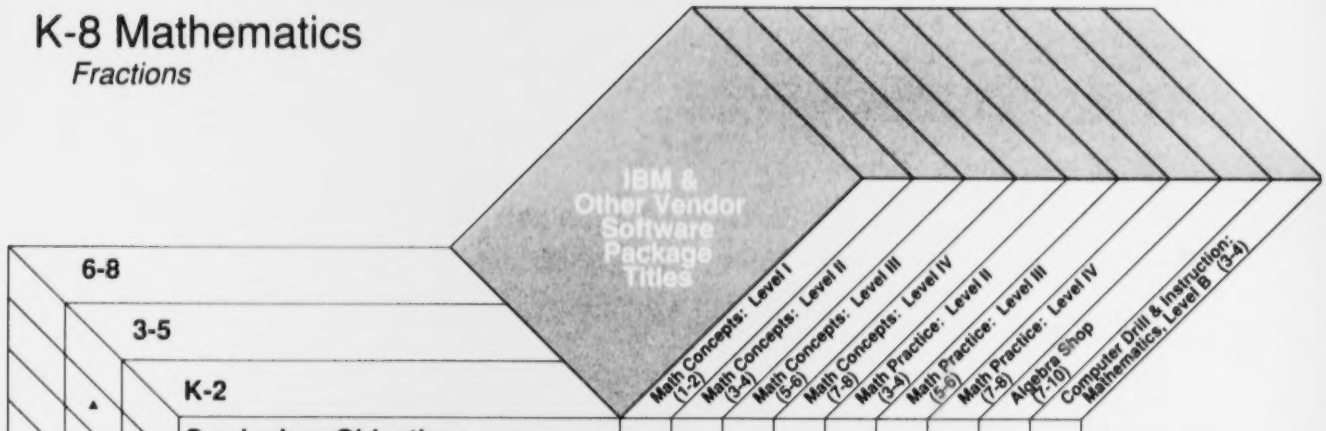
Teasers by Tobbs: Puzzles & Problem Solving (3-12)

K-8 Mathematics

Fractions


6-8
3-5
K-2
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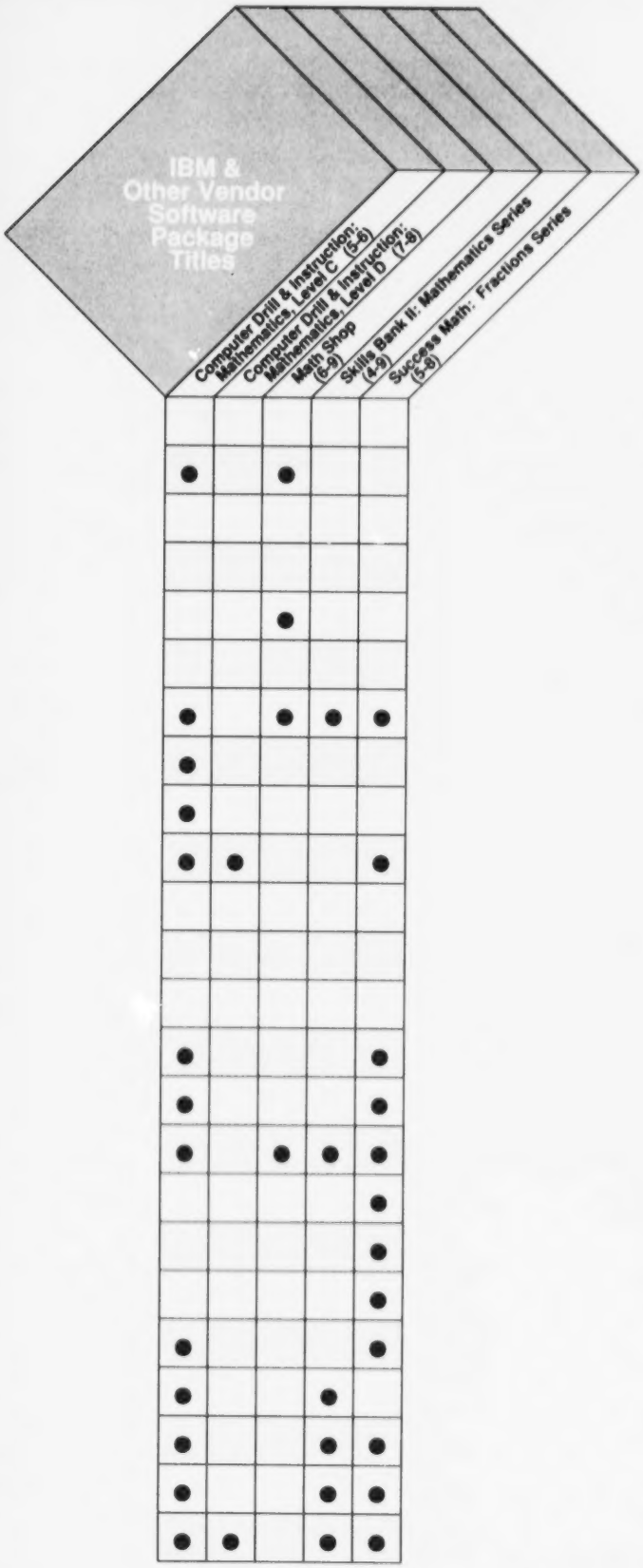
Math Concepts: Level III (5-6)
Math Concepts: Level IV (7-8)
Math Practice: Level II (3-4)
Math Practice: Level III (5-6)
Math Practice: Level IV (7-8)
Algebra Shop (7-10)
Computer Drill & Instruction: Mathematics, Level B (3-4)

Curriculum Objectives									
Understand fractions as an expression of parts of a whole	●	●	●	●					●
Recognize halves or quarters of a whole	●								○
Divide areas &/or line segments into fractional parts	●	●	●	●					○
Express parts of a whole as fractions	●	●	●	●					○
Use pictorial or concrete representation to demonstrate computations with fractions	●	●	●	●					●
Know the terms & definitions associated with fractions			●	●					●
Write numerals for a fraction written in words or spoken									●
Write word names for a given fraction									●
Understand meaning of mixed fractions		●	●	●					
Arrange mixed numbers & fractions in order	○	○	○						○
Use <, =, or > to compare mixed numbers & fractions		●	●	●					
Round a mixed number to the nearest whole number				○					
Identify equivalent fractions (4/6 = 2/3)		●	●	●					●
Find equivalent fractions			●	●					●
Reduce a fraction to lowest terms (simplify)			●	●				●	●
Express an improper fraction as a mixed number		●	●	●					●
Express a mixed number as an improper fraction		●	●	●					●
Create an improper fractional part by regrouping a mixed number			○	●					●
Find the lowest common denominator of two or more fractions		●	●	●					●
Add 1/2s & 1/4s of a whole		●							●
Add fractions with like denominators		●	●	●	●	●		●	●
Add fractions with unlike denominators		●	●	●		●	●	●	●
Add fractional numbers with like denominators where at least one of them is a mixed number			●	●					

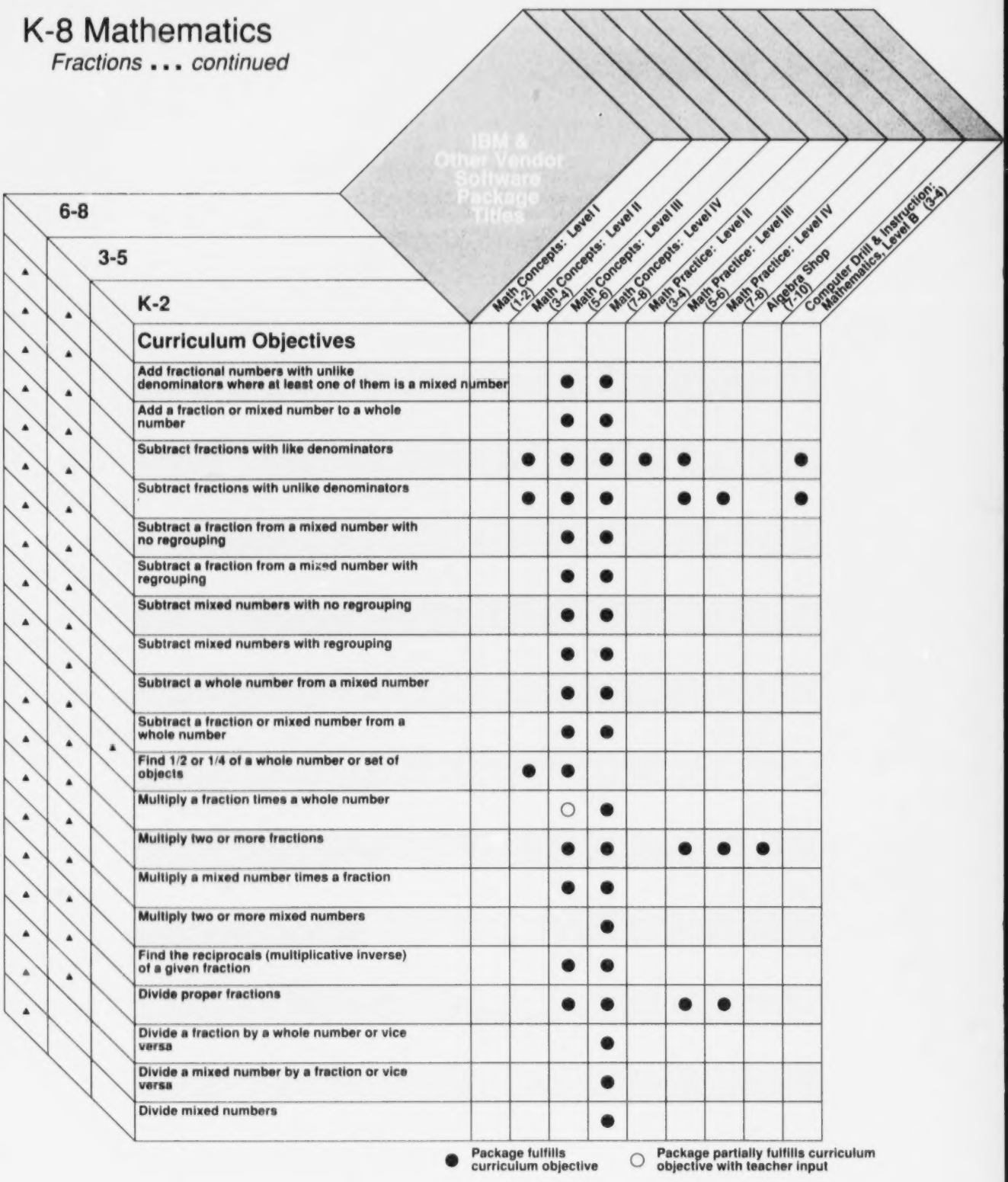
continues

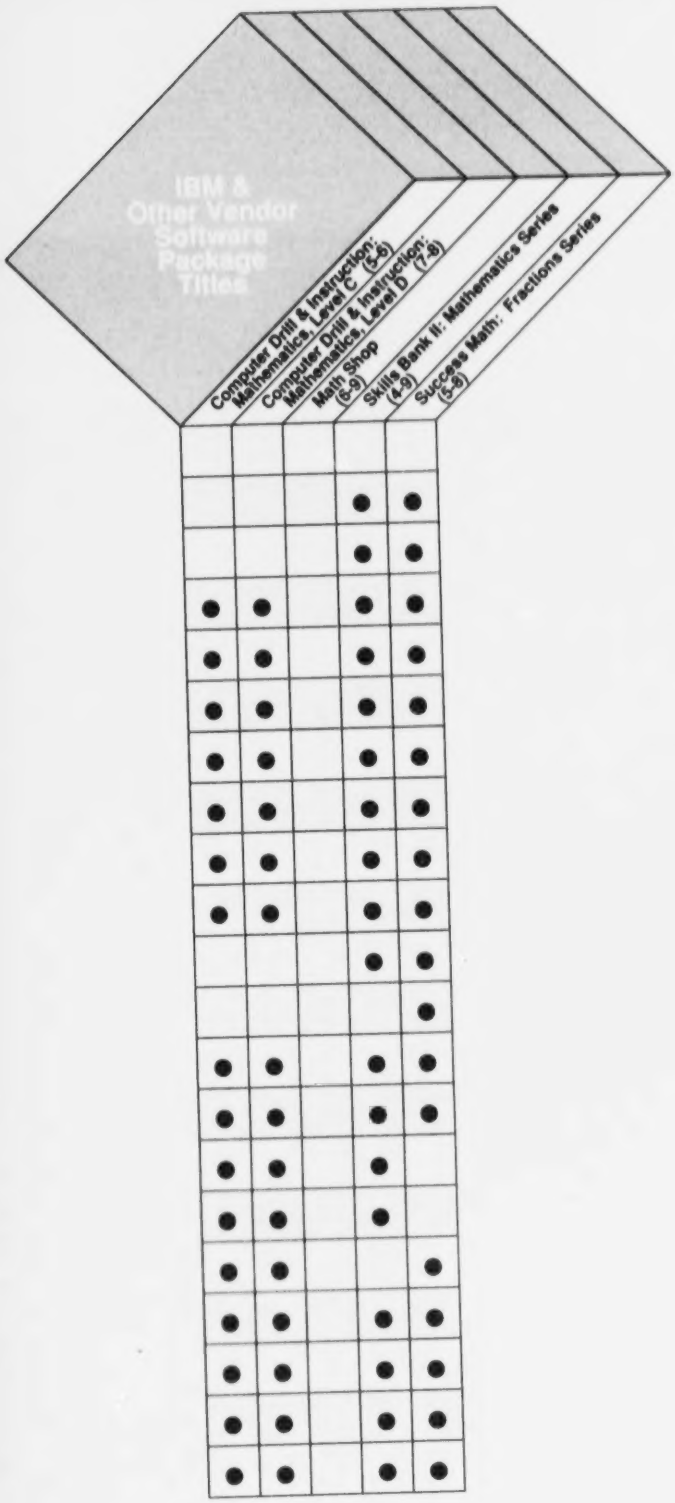
● Package fulfills curriculum objective ○ Package partially fulfills curriculum objective with teacher input


IBM &
Other Vendor
Software
Package
Titles
Computer Drill & Instruction: Mathematics, Level C (5-6)
Computer Drill & Instruction: Mathematics, Level D (7-8)
Math Shop (6-9)
Skills Bank II: Mathematics Series (4-9)
Success Math: Fractions Series (5-9)

K-8 Mathematics

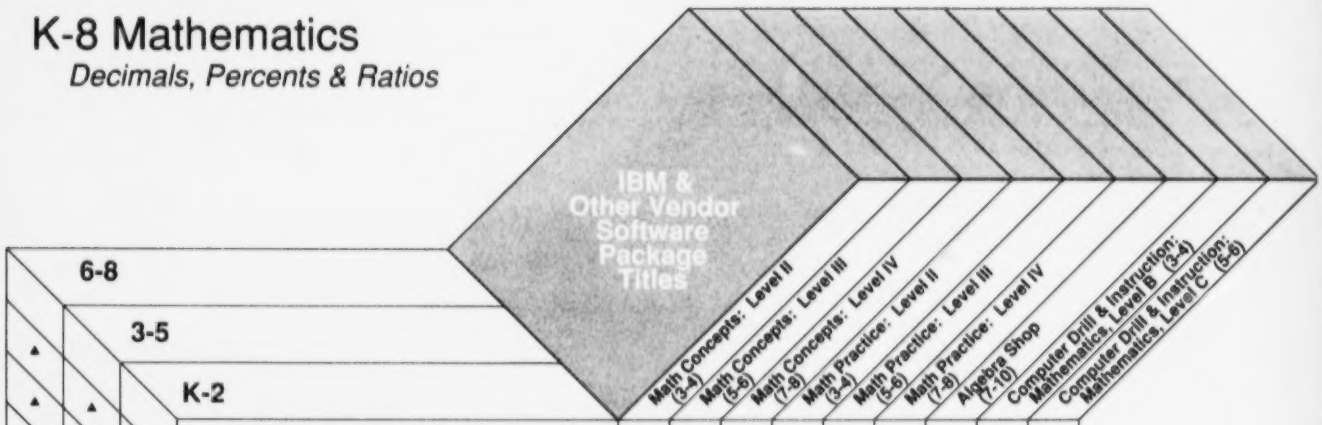
Fractions . . . continued


6-8
3-5
K-2
IBM & Other Vendor Software Package Titles
Math Concepts: Level I (1-2)
Math Concepts: Level II (3-4)
Math Concepts: Level III (5-6)
Math Concepts: Level IV (7-8)
Math Practice: Level II (3-4)
Math Practice: Level III (5-6)
Math Practice: Level IV (7-8)
Algebra Shop (7-10)
Computer Drill & Instruction: Mathematics, Level B (3-4)
Curriculum Objectives
Add fractional numbers with unlike denominators where at least one of them is a mixed number
Add a fraction or mixed number to a whole number
Subtract fractions with like denominators
Subtract fractions with unlike denominators
Subtract a fraction from a mixed number with no regrouping
Subtract a fraction from a mixed number with regrouping
Subtract mixed numbers with no regrouping
Subtract mixed numbers with regrouping
Subtract a whole number from a mixed number
Subtract a fraction or mixed number from a whole number
Find 1/2 or 1/4 of a whole number or set of objects
Multiply a fraction times a whole number
Multiply two or more fractions
Multiply a mixed number times a fraction
Multiply two or more mixed numbers
Find the reciprocals (multiplicative inverse) of a given fraction
Divide proper fractions
Divide a fraction by a whole number or vice versa
Divide a mixed number by a fraction or vice versa
Divide mixed numbers
● Package fulfills curriculum objective
○ Package partially fulfills curriculum objective with teacher input


IBM &
Other Vendor
Software
Package
Titles
Computer Drill & Instruction: Mathematics, Level C (5-6)
Computer Drill & Instruction: Mathematics, Level B (7-8)
Math Shop (5-9)
Skills Bank II: Mathematics Series (4-9)
Success Math: Fractions Series (5-9)

K-8 Mathematics

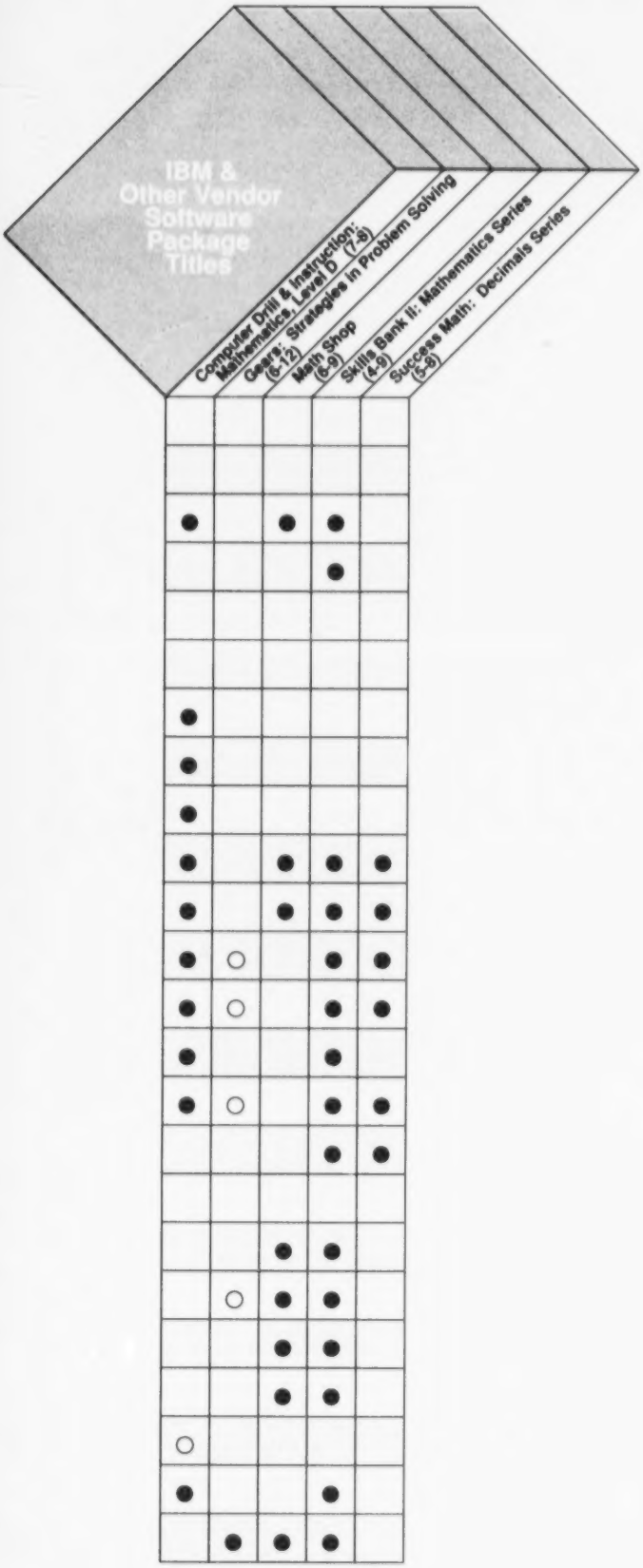
Decimals, Percents & Ratios


6-8
3-5
K-2
IBM & Other Vendor Software Package Titles
Math Concepts: Level II (3-4)
Math Concepts: Level III (5-6)
Math Concepts: Level IV (7-8)
Math Practice: Level II (3-4)
Math Practice: Level III (5-6)
Math Practice: Level IV (7-8)
Algebra Shop (7-10)
Computer Drill & Instruction: Mathematics, Level B (3-4)
Computer Drill & Instruction: Mathematics, Level C (5-6)

Curriculum Objectives									
Explain decimals as an expression of part of a whole	●	●	●					●	
Identify the place value of any digit in a decimal	○	○	○						●
Write a decimal number in expanded notation									
Arrange decimals in order	●	●							●
Using <, =, or > to compare decimals	●	●	●						●
Write the numeral for a decimal spoken or written in words		●	●						●
Read &/or write the word name for a given decimal									●
Round a decimal to a given place			●						●
Add two or more decimals	●	●	●	●	●	●		●	●
Subtract two decimals	●	●	●	●	●	●		●	●
Multiply two decimals		●	●		●	●			●
Multiply a whole number & a decimal			●						●
Multiply a decimal by a power of 10									●
Divide two decimals		●	●		●	●			●
Divide a whole number & a decimal		●	●		●	●			●
Divide a decimal by a power of 10									●
Convert a simple fraction (denominators 2,4,5,8,10) to an equivalent decimal		●	●				●	●	●
Convert a fraction to an equivalent decimal	○	●	●				●	●	●
Convert a nonrepeating decimal to a fraction		●	●						●
Convert a repeating decimal to an equivalent fraction									●
Write a decimal in scientific notation & vice versa									
Compute with numbers in scientific notation									
Express a comparison of two numbers as a ratio		●	●						

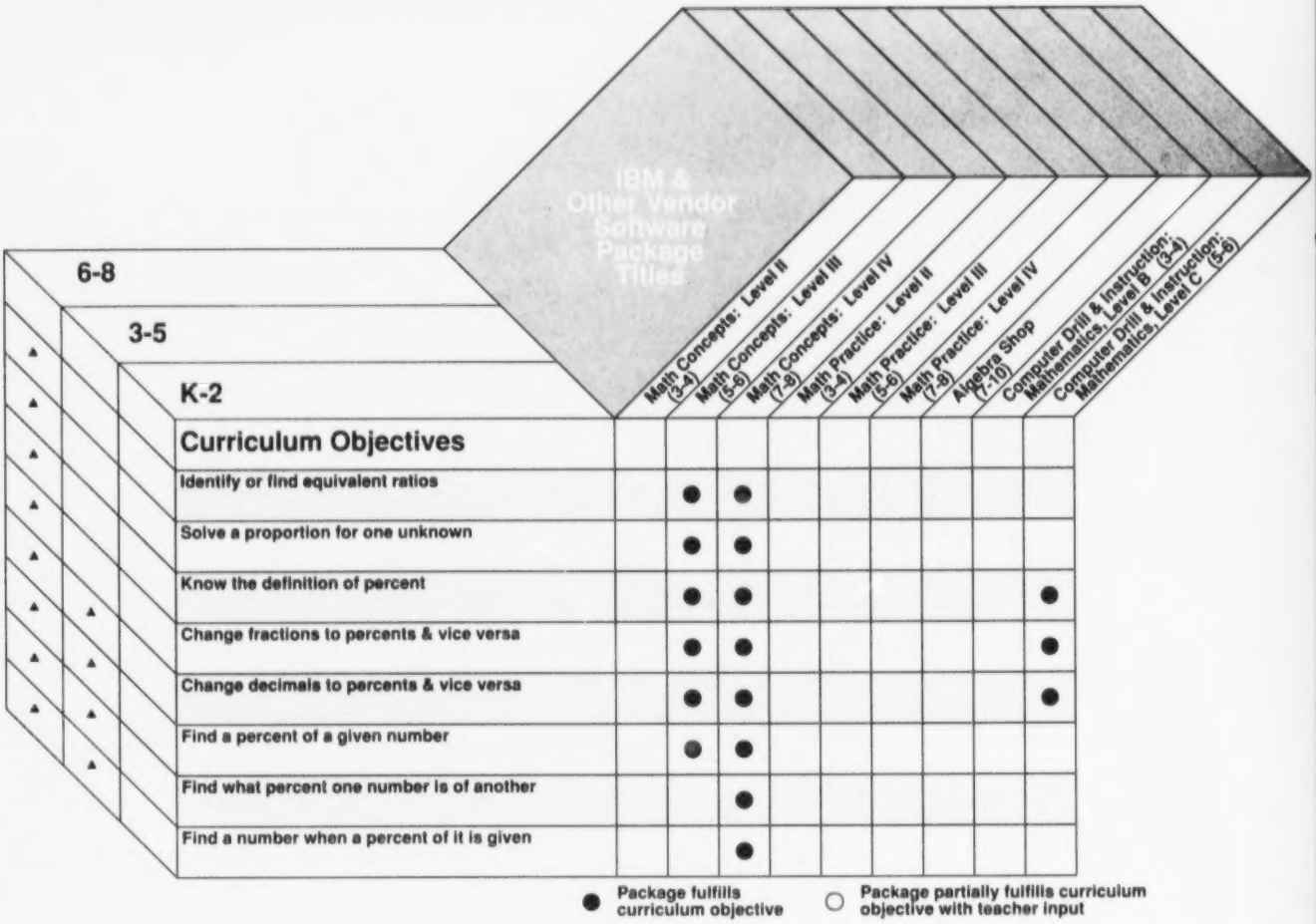
continues

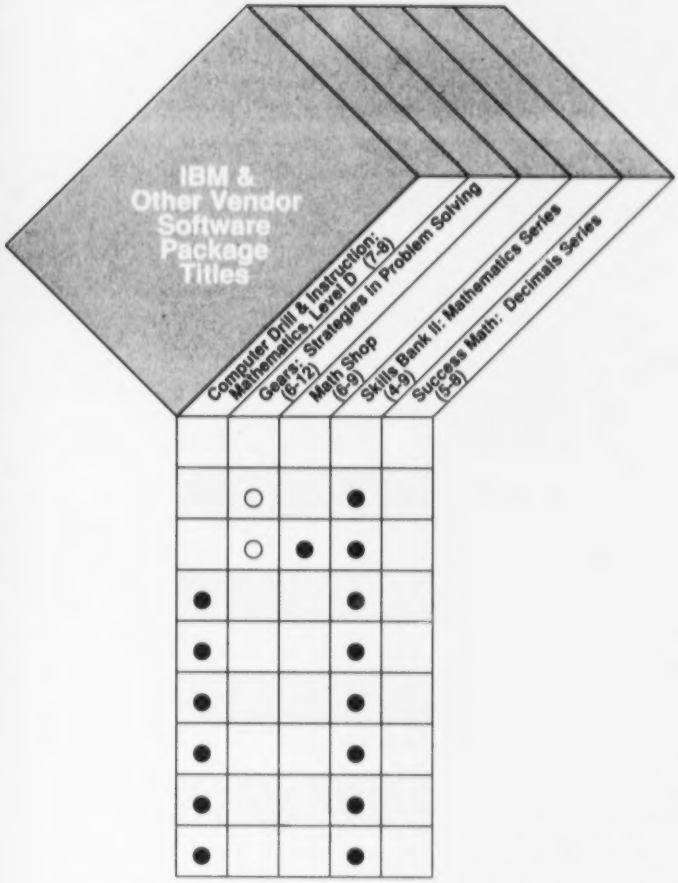
● Package fulfills curriculum objective ○ Package partially fulfills curriculum objective with teacher input


IBM &
Other Vendor
Software
Package
Titles
Computer Drill & Instruction: Mathematics, Level D (7-8)
Gears: Strategies in Problem Solving (6-12)
Math Shop (5-9)
Skills Bank II: Mathematics Series (4-9)
Success Math: Decimals Series (5-8)

K-8 Mathematics

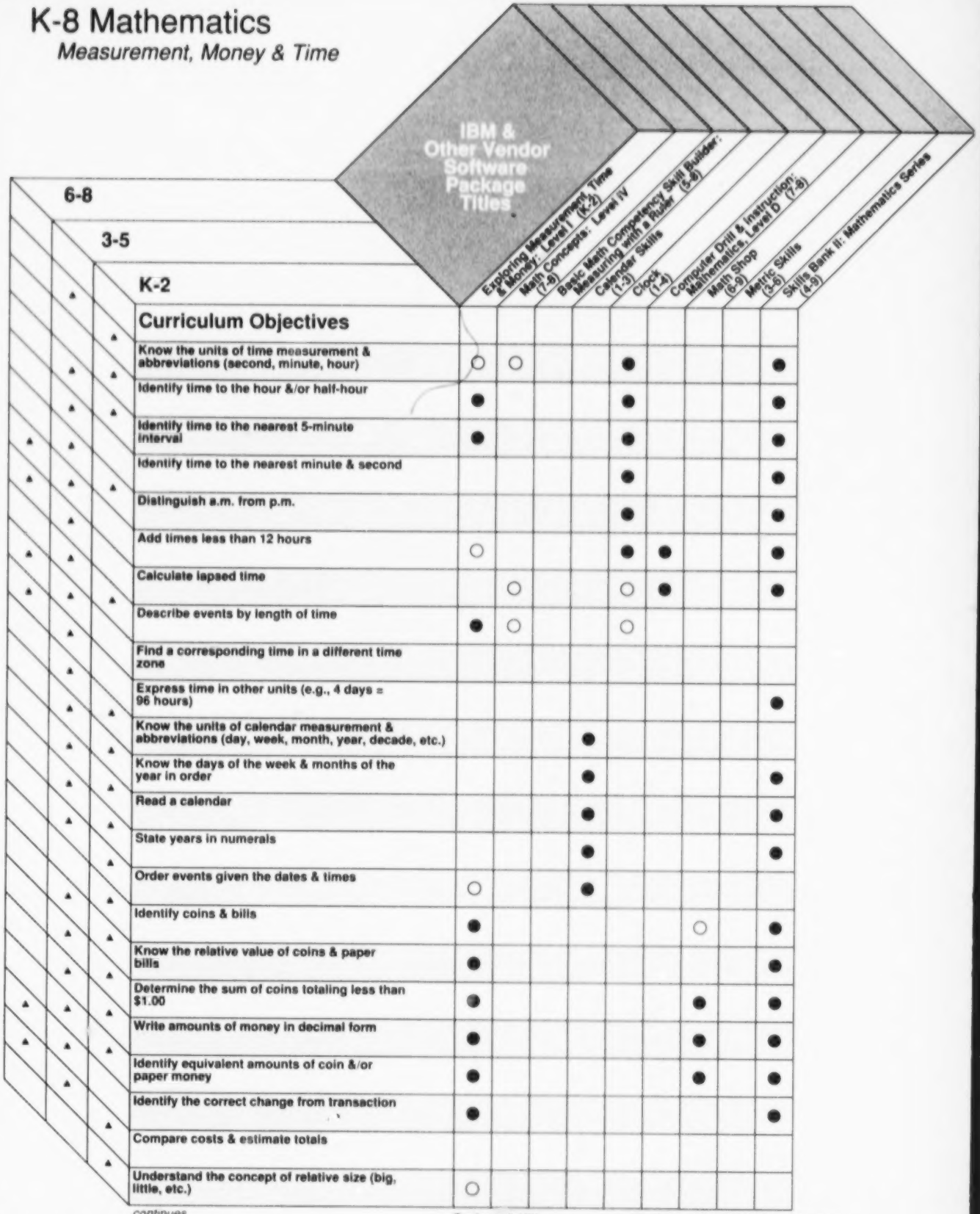
Decimals, Percents & Ratios ... continued


IBM & Other Vendor Software Package Titles
Math Concepts: Level II (3-4)
Math Concepts: Level III (5-6)
Math Concepts: Level IV (7-8)
Math Practice: Level II (3-4)
Math Practice: Level III (5-6)
Math Practice: Level IV (7-8)
Algebra Shop (7-10)
Computer Drill & Instruction: Mathematics, Level B (3-4)
Computer Drill & Instruction: Mathematics, Level C (5-6)
6-8
3-5
K-2
Curriculum Objectives
Identify or find equivalent ratios
Solve a proportion for one unknown
Know the definition of percent
Change fractions to percents & vice versa
Change decimals to percents & vice versa
Find a percent of a given number
Find what percent one number is of another
Find a number when a percent of it is given
● Package fulfills curriculum objective
○ Package partially fulfills curriculum objective with teacher input


IBM &
Other Vendor
Software
Package
Titles
Computer Drill & Instruction: Mathematics, Level D (7-8)
Gears: Strategies in Problem Solving (6-12)
Math Shop (6-9)
Skills Bank II: Mathematics Series (4-9)
Success Math: Decimals Series (5-9)

K-8 Mathematics

Measurement, Money & Time



Curriculum Objectives	Exploring Measurement, Time & Money: Level I (K-2)	Math Concepts: Level IV (7-8)	Basic Math Competency Skill Builder: Measuring with a Ruler (5-8)	Calendar Skills (1-3)	Clock (1-4)	Computer Drill & Instruction: Mathematics, Level D (7-8)	Math Shop (6-9)	Metric Skills (3-6)	Skills Bank II: Mathematics Series (4-9)
Know the units of time measurement & abbreviations (second, minute, hour)	○	○			●				●
Identify time to the hour &/or half-hour	●				●				●
Identify time to the nearest 5-minute interval	●				●				●
Identify time to the nearest minute & second					●				●
Distinguish a.m. from p.m.					●				●
Add times less than 12 hours	○				●	●			●
Calculate lapsed time		○			○	●			●
Describe events by length of time	●	○			○				
Find a corresponding time in a different time zone									
Express time in other units (e.g., 4 days = 96 hours)									●
Know the units of calendar measurement & abbreviations (day, week, month, year, decade, etc.)				●					
Know the days of the week & months of the year in order				●					●
Read a calendar				●					●
State years in numerals				●					●
Order events given the dates & times	○			●					
Identify coins & bills	●						○		●
Know the relative value of coins & paper bills	●								●
Determine the sum of coins totaling less than $1.00	●						●		●
Write amounts of money in decimal form	●						●		●
Identify equivalent amounts of coin &/or paper money	●						●		●
Identify the correct change from transaction	●								●
Compare costs & estimate totals									
Understand the concept of relative size (big, little, etc.)	○								

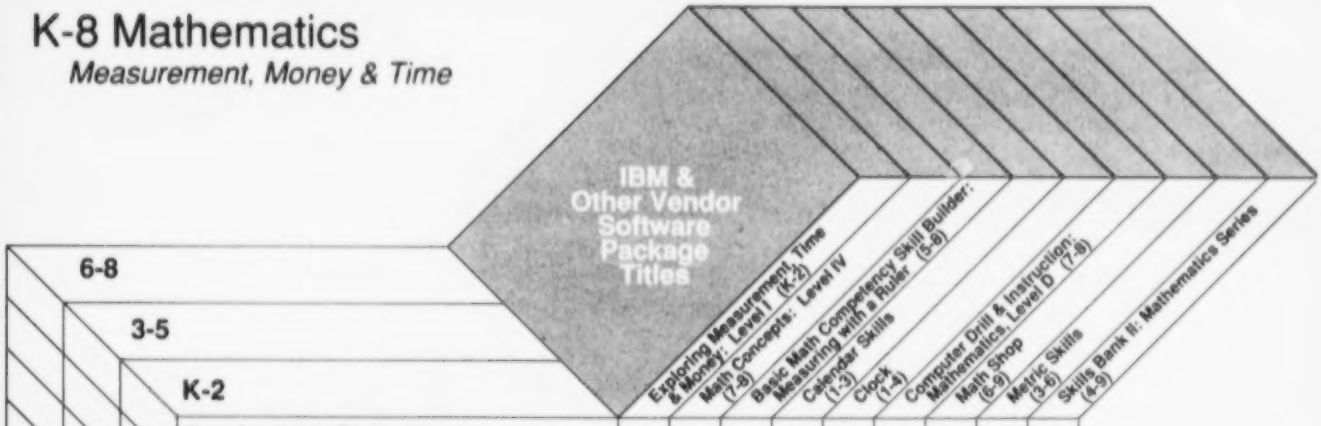
continues

● Package fulfills curriculum objective

○ Package partially fulfills curriculum objective with teacher input

K-8 Mathematics

Measurement, Money & Time


IBM & Other Vendor Software Package Titles
6-8
3-5
K-2
Exploring Measurement, Time & Money: Level I (K-2)
Math Concepts: Level IV (7-8)
Basic Math Competency Skill Builder: Measuring with a Ruler (5-8)
Calendar Skills (1-3)
Clock (1-4)
Computer Drill & Instruction: Mathematics, Level D (7-8)
Math Shop (6-9)
Metric Skills (3-6)
Skills Bank II: Mathematics Series (4-9)

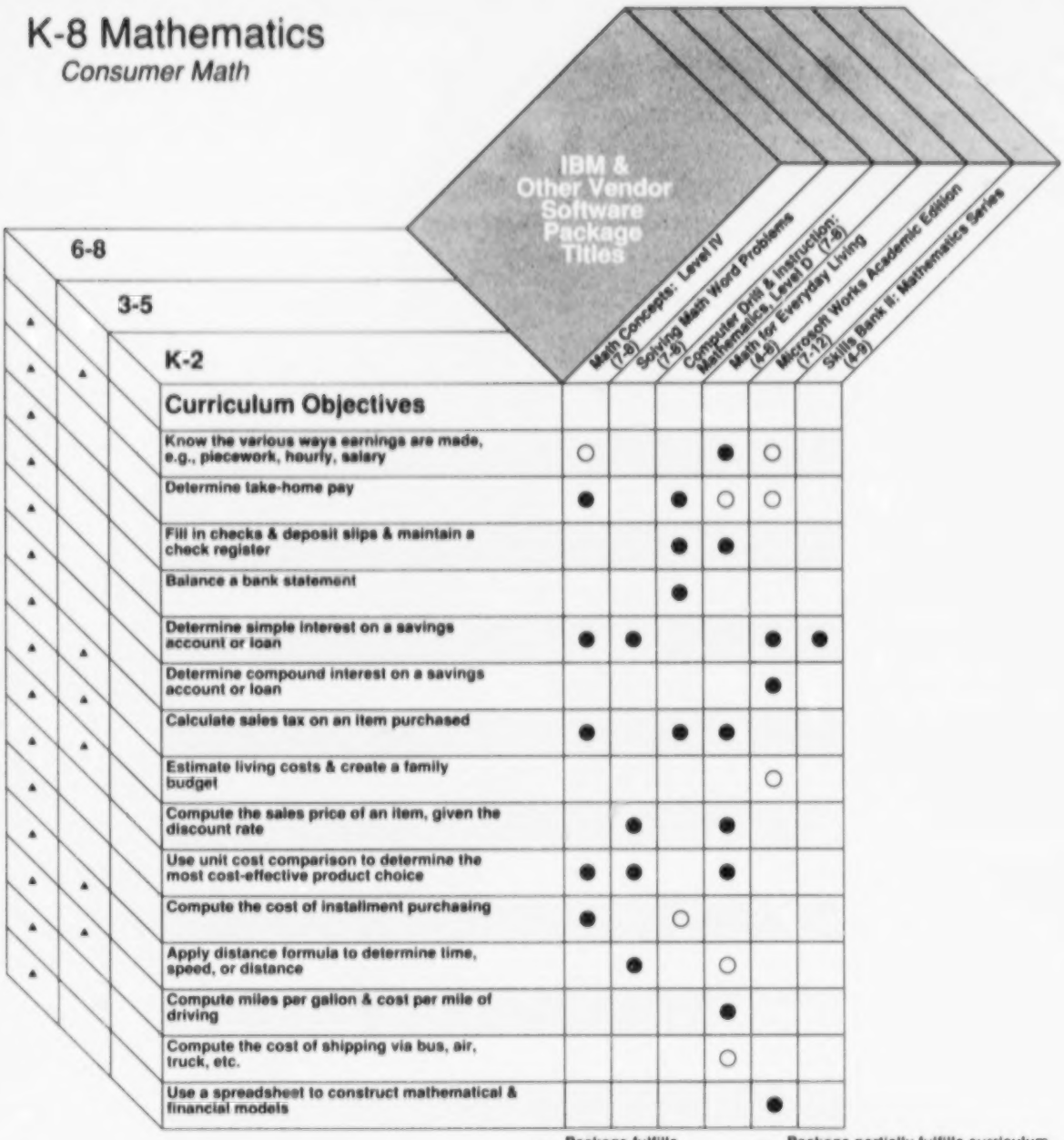
Curriculum Objectives									
Order objects by size	○								
Identify various instruments for measuring length, volume, weight & temperature	○								
Know the concept of precision & how it relates to unit measurement								○	
Know the English units of quantity, e.g., dozen, pair									
Know the English measures of distance & the abbreviations, e.g., inch, foot, yard, mile			○						
Perform measurements of length using English units	○		●			●			●
Know the English measures of volume & the abbreviations, e.g., cup, pint, quart									
Perform measurements of volume using English units									●
Know the English measures of weight & the abbreviations, e.g., ounce, pound									
Perform measurements of weight using English units									
Know the English measurement of temperature									●
Perform measurements of temperature using English units									
Know the relationships between common English units						●			
Identify the appropriate English unit of measurement									
Convert between various measurement units within the English system							●		
Know the basic metric units of measures for length, volume, weight & temperature & their abbreviations								●	
Know the definitions & abbreviations of the metric prefixes						○		●	
Use metric units in combination with metric prefixes								●	
Know the relationships between common metric units						○		●	
Select the appropriate metric unit of measurement						●		●	
Convert between various measurement units within the metric system						●		●	
Perform measurements of temp., length, volume & weight using metric units						○		●	
Convert between English & metric units						●			

● Package fulfills curriculum objective

○ Package partially fulfills curriculum objective with teacher input

K-8 Mathematics

Consumer Math


IBM & Other Vendor Software Package Titles
Math Concepts: Level IV (7-8)
Solving Math Word Problems (7-8)
Computer Drill & Instruction: Mathematics, Level D (7-8)
Math for Everyday Living (4-6)
Microsoft Works Academic Edition (7-12)
Skills Bank II: Mathematics Series (4-9)
6-8
3-5
K-2
Curriculum Objectives
Know the various ways earnings are made, e.g., piecework, hourly, salary
Determine take-home pay
Fill in checks & deposit slips & maintain a check register
Balance a bank statement
Determine simple interest on a savings account or loan
Determine compound interest on a savings account or loan
Calculate sales tax on an item purchased
Estimate living costs & create a family budget
Compute the sales price of an item, given the discount rate
Use unit cost comparison to determine the most cost-effective product choice
Compute the cost of installment purchasing
Apply distance formula to determine time, speed, or distance
Compute miles per gallon & cost per mile of driving
Compute the cost of shipping via bus, air, truck, etc.
Use a spreadsheet to construct mathematical & financial models
● Package fulfills curriculum objective
○ Package partially fulfills curriculum objective with teacher input

K-8 Mathematics

Geometry

6-8	3-5	K-2	Curriculum Objectives	Geometry One: Foundations (8-12)	Math Concepts: Level I (1-2)	Math Concepts: Level II (3-4)	Math Concepts: Level III (5-6)	Math Concepts: Level IV (7-8)	Math Concepts: Level P (PreK-K)	Basic Math Competency Skill Builder: Measuring with a Ruler (5-8)	Computer Drill & Instruction: Mathematics, Level D (7-8)	Skills Bank II: Mathematics Series (4-9)
		▲	Compare the shape & size of objects	●	●	●	●	●	●			
		▲	Recognize objects of the same shape or size	●	●	●	●	●	●			
	▲	▲	Recognize similarities & differences in geometric figures	○		○	○	○				
		▲	Identify closed & open shapes	●	●	●	●	●	○			○
	▲	▲	Understand the concept of position relative to a closed geometric figure (inside, outside, on)	○	○	○	○	○	○			
▲	▲	▲	Name common geometric shapes (circle, triangle, etc.)	●	●	●	●	●	●			
▲	▲	▲	Recognize symmetry & asymmetry of geometric figures & objects	○	○	○	○	○	○			
▲	▲		Define & recognize points, lines, rays & segments	●	●	●	●	●	○			○
▲	▲		Define & recognize perpendicular, parallel & transversal lines	●			●	●				○
▲	▲		Define & recognize a plane									
▲	▲		Understand the concepts of congruence, similarity & symmetry	○	○	○	●	●	○			
▲			Know the units of angular measure	●		○	●	●				●
▲	▲		Measure an angle & label it	●			●	●				●
▲			Identify the parts of an angle	●				●				●
▲			Classify an angle, e.g., acute, obtuse, right, straight, interior, exterior	●				●				○
▲	▲		Classify pairs of angles by their properties, e.g., vertical, adjacent, complementary, supplementary	●				●				
▲			Identify & calculate the complement & supplement of an angle	●								○
▲	▲		Distinguish congruent angles	○			○	○				○
▲	▲		Solve for unknown angles in a given geometric shape	○								
▲	▲		Know the definition & properties of triangles	●	●	●	●	●	○			
			Classify a given triangle by its properties	●		●	●	●				
			Determine the area & perimeter of a triangle	●			●	●		●	●	
			Use the Pythagorean theorem	●								

continues

● Package fulfills curriculum objective

○ Package partially fulfills curriculum objective with teacher input

K-8 Mathematics

Geometry

6-8	3-5	K-2	Curriculum Objectives	Geometry One: Foundations (8-12)	Math Concepts: Level I (1-2)	Math Concepts: Level II (3-4)	Math Concepts: Level III (5-6)	Math Concepts: Level IV (7-9)	Math Concepts: Level P (PreK-K)	Basic Math Competency Skill Builder: Measuring with a Ruler (5-8)	Computer Drill & Instruction: Mathematics, Level D (7-8)	Skills Bank II: Mathematics Series (4-9)
▲			Show two triangles to be congruent	●	○	○	○	●	○			
▲	▲		Show two triangles to be similar	●	○	○	○	○	○			
▲	▲	▲	Know the definition & properties of squares & rectangles	●	●	●	●	●	●			
▲	▲	▲	Identify a given square or rectangle by its properties	●		●	●	●				
▲	▲		Determine the area & perimeter of a square or rectangle	●		●	●	●		●		
▲			Show two squares or rectangles to be congruent	○	○	○	○	○	○			
▲	▲		Show two squares or rectangles to be similar	●	○	○	○	○	○			
▲	▲		Know the definition & properties of quadrilaterals	●			●	●				
▲			Classify a given quadrilateral by its properties	●			●	●			○	
▲			Determine the area & perimeter of a quadrilateral	●			●	●		●		
▲	▲		Show two quadrilaterals to be congruent	○		○	○	○				
▲	▲		Show two quadrilaterals to be similar	●		○	○	○				
▲			Know the definition & properties of polygons	●	●	●	●	●	○			
▲			Classify a given polygon by its properties	●	●	●	●	●	○			
▲			Determine the area & perimeter of a polygon	●				○		●		●
▲	▲		Show two polygons congruent	○	○	○	○	○				
▲	▲		Show two polygons to be similar	●	○	○	○	○	○			
▲			Know the definition & properties of arcs & circles	●	○	○	●	●	○			
▲			Know the definition & applications of Pi				●	●				
▲			Know the terminology relating to arcs & circles (radii, diameter, arcs, chords, etc.)	●			●	●				
	▲		Determine the area & circumference of a circle	●			○	●				
			Show two arcs or circles to be congruent	●	○	○	○	○	○			
			Calculate the perimeter of a geometric figure by totaling the lengths of the sides	●			●					

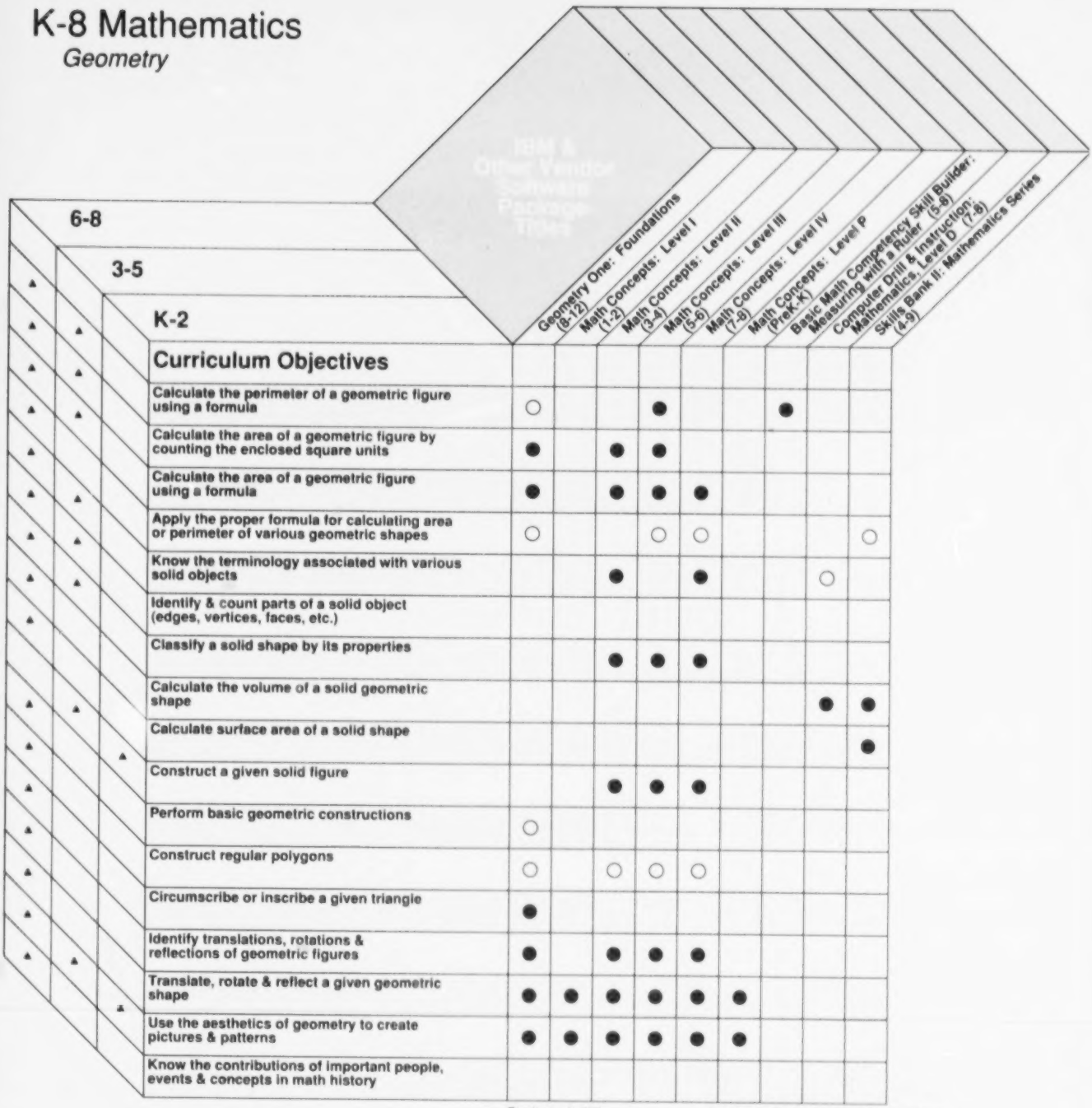
continues

● Package fulfills curriculum objective

○ Package partially fulfills curriculum objective with teacher input

K-8 Mathematics

Geometry



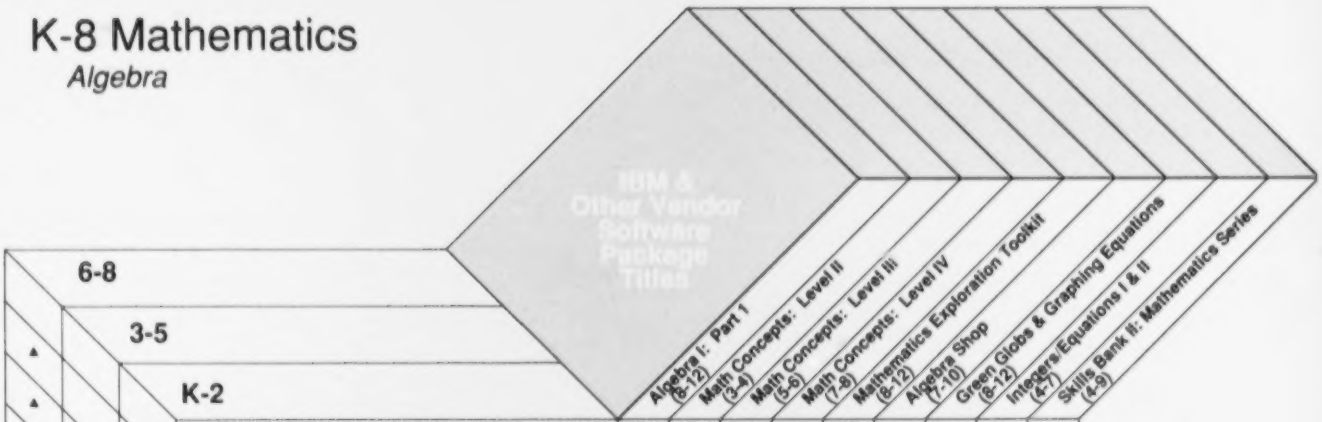
Curriculum Objectives	Geometry One: Foundations (8-12)	Math Concepts: Level I (1-2)	Math Concepts: Level II (3-4)	Math Concepts: Level III (5-6)	Math Concepts: Level IV (7-8)	Math Concepts: Level P (PreK-K)	Basic Math Competency Skill Builder: Measuring with a Ruler (5-8)	Computer Drill & Instruction: Mathematics, Level D (7-8)	Skills Bank III: Mathematics Series (4-9)
Calculate the perimeter of a geometric figure using a formula	○			●			●		
Calculate the area of a geometric figure by counting the enclosed square units	●		●	●					
Calculate the area of a geometric figure using a formula	●		●	●	●				
Apply the proper formula for calculating area or perimeter of various geometric shapes	○			○	○				○
Know the terminology associated with various solid objects			●		●			○	
Identify & count parts of a solid object (edges, vertices, faces, etc.)									
Classify a solid shape by its properties			●	●	●				
Calculate the volume of a solid geometric shape								●	●
Calculate surface area of a solid shape									●
Construct a given solid figure			●	●	●				
Perform basic geometric constructions	○								
Construct regular polygons	○		○	○	○				
Circumscribe or inscribe a given triangle	●								
Identify translations, rotations & reflections of geometric figures	●		●	●	●				
Translate, rotate & reflect a given geometric shape	●	●	●	●	●	●			
Use the aesthetics of geometry to create pictures & patterns	●	●	●	●	●	●			
Know the contributions of important people, events & concepts in math history									

● Package fulfills curriculum objective

○ Package partially fulfills curriculum objective with teacher input

K-8 Mathematics

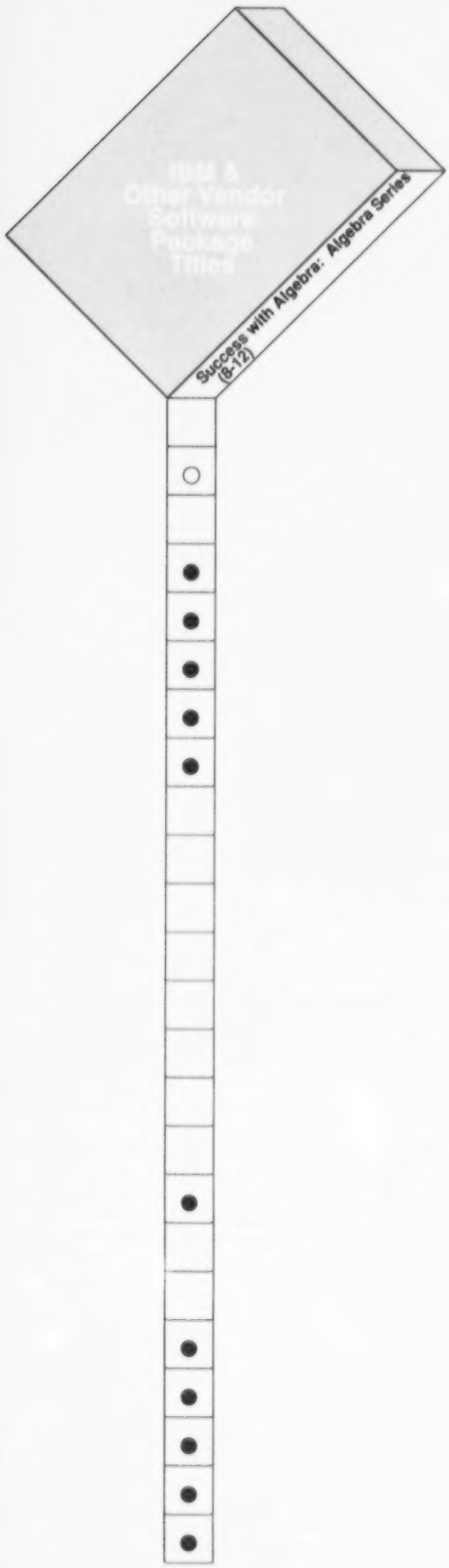
Algebra


IBM & Other Vendor Software Package Titles
6-8
3-5
K-2
Algebra I: Part 1 (8-12)
Math Concepts: Level II (3-4)
Math Concepts: Level III (5-6)
Math Concepts: Level IV (7-8)
Mathematics Exploration Toolkit (8-12)
Algebra Shop (7-10)
Green Globs & Graphing Equations (8-12)
Integers/Equations I & II (4-7)
Skills Bank II: Mathematics Series (4-9)

Curriculum Objectives									
Understand the concept of negative numbers (additive inverse)			●	●				●	
Compare integers &/or arrange integers in order			●	●				●	
Add integers				●		●		●	●
Subtract integers				●		●		●	●
Multiply integers				●		●		●	●
Divide integers				●		●		●	●
Raise an integer to a given power									
Use set notation								●	
Understand empty set & subsets									
Demonstrate the operations of union & intersection of two sets									
Interpret a Venn diagram of two or more sets									
Sketch a Venn diagram of two or more sets									
Define & identify natural, whole, rational, irrational & real numbers									
Understand the relationships among various number systems									
Know the properties of real numbers		○	○						
Apply the properties of real numbers to simple problems		○	○						
Define number systems other than base 10									
Convert between other number systems & base 10									
Understand the meaning of symbols used in algebra	●				○			●	
Understand the relationship between an operation & its inverse	○				○			●	
Demonstrate order of operation rules	●				●	●		●	
Evaluate algebraic expressions	●				●			●	
Understand & apply the laws of exponents	●				○				●

continues

● Package fulfills curriculum objective ○ Package partially fulfills curriculum objective with teacher input


IBM &
Other Vendor
Software
Package
Titles
Success with Algebra: Algebra Series
(8-12)

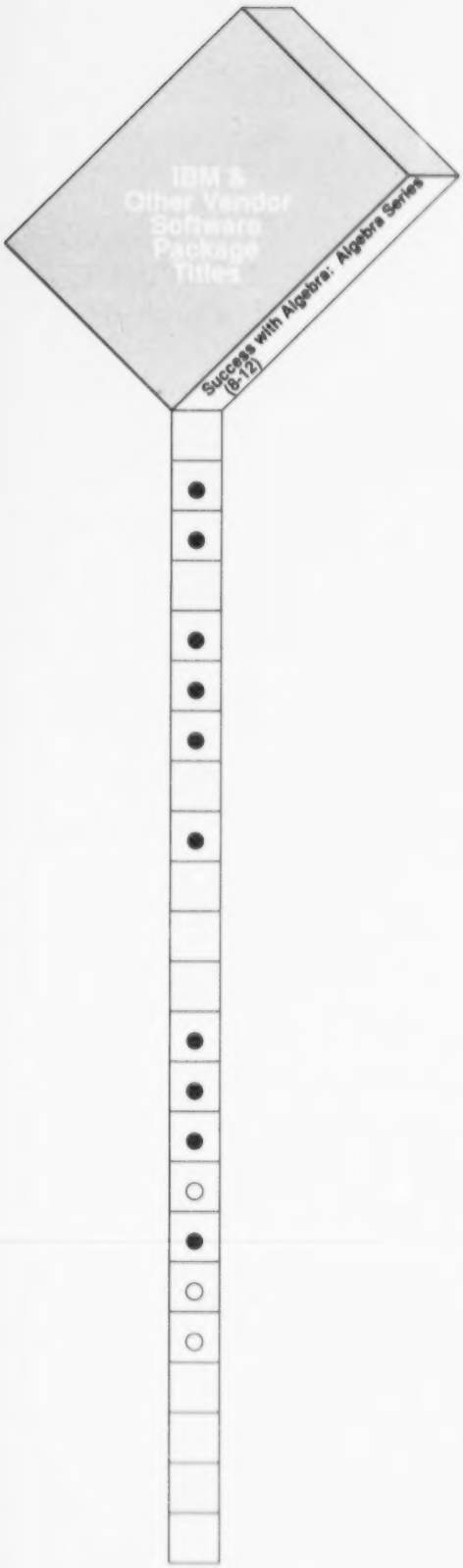
K-8 Mathematics

Algebra ... continued

Curriculum Objectives	Algebra I: Part 1 (8-12)	Math Concepts: Level II (3-4)	Math Concepts: Level III (5-6)	Math Concepts: Level IV (7-8)	Mathematics Exploration Toolkit (8-12)	Algebra Shop (7-10)	Green Globs & Graphing Equations (8-12)	Integers Equations I & II (4-7)	Skills Bank II: Mathematics Series (4-9)
Perform basic operations on algebraic expressions	●				○			●	●
Simplify algebraic expressions	●				●			●	●
Determine the absolute value	○				○				●
Know the properties of equality & inequality	●				○				
Use formulas to solve problems	○				○	●			
Solve an equation with one unknown	●				○	●			
Solve an inequality with one unknown	●				○				
Plot points on a number line	○		●	●	○				●
Given a point on the number line, identify its coordinates	○				○				
Plot points or sets of points on a number line	○				○				
Identify the set of points given its graph on a number line	●				○				
Understand the points on a plane corresponding to ordered pairs	●	●			○		○		
Given a point on the Cartesian plane, identify its coordinates	●	○	●		○		●		
Plot points on a Cartesian coordinates plane	●	●	●		○		●		
Use a graphing utility to plot points & graph equations	●				●		●		
Express a linear equation in slope/intercept form & standard form	●				●		○		
Find slope & y-intercept of a linear equation	●				●		○		
Graph linear equations & inequalities	●				●		●		
Determine the linear equation or inequality given its graph	●				●		●		
Determine the equation of a line given two points, or slope & point	●				●		○		
Distinguish direct, inverse, or joint variation	○				○				
Use a graphing utility to analyze the graphs of equations	●				●		●		

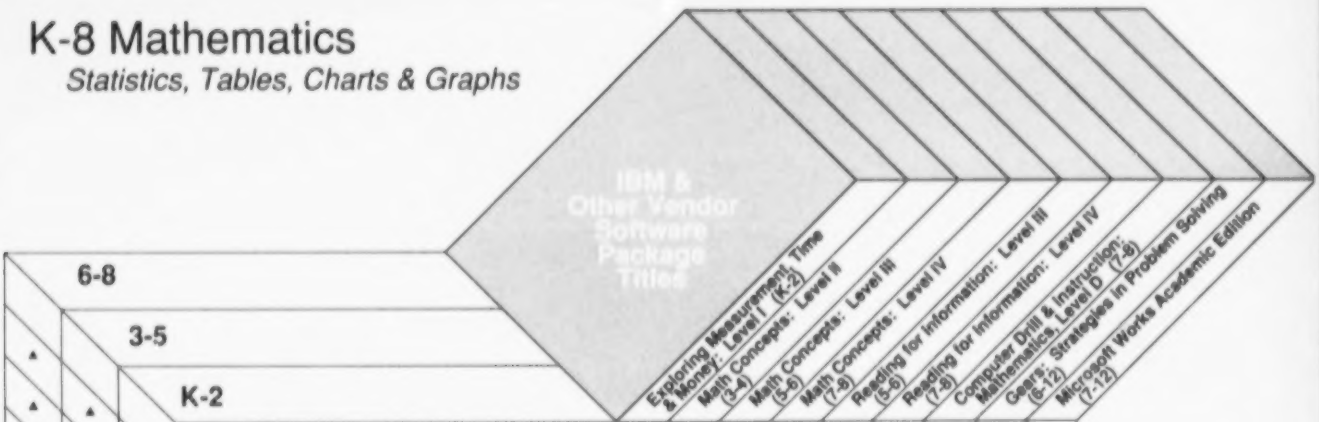
● Package fulfills curriculum objective

○ Package partially fulfills curriculum objective with teacher input


IBM &
Other Vendor
Software
Package
Titles
Success with Algebra: Algebra Series
(8-12)

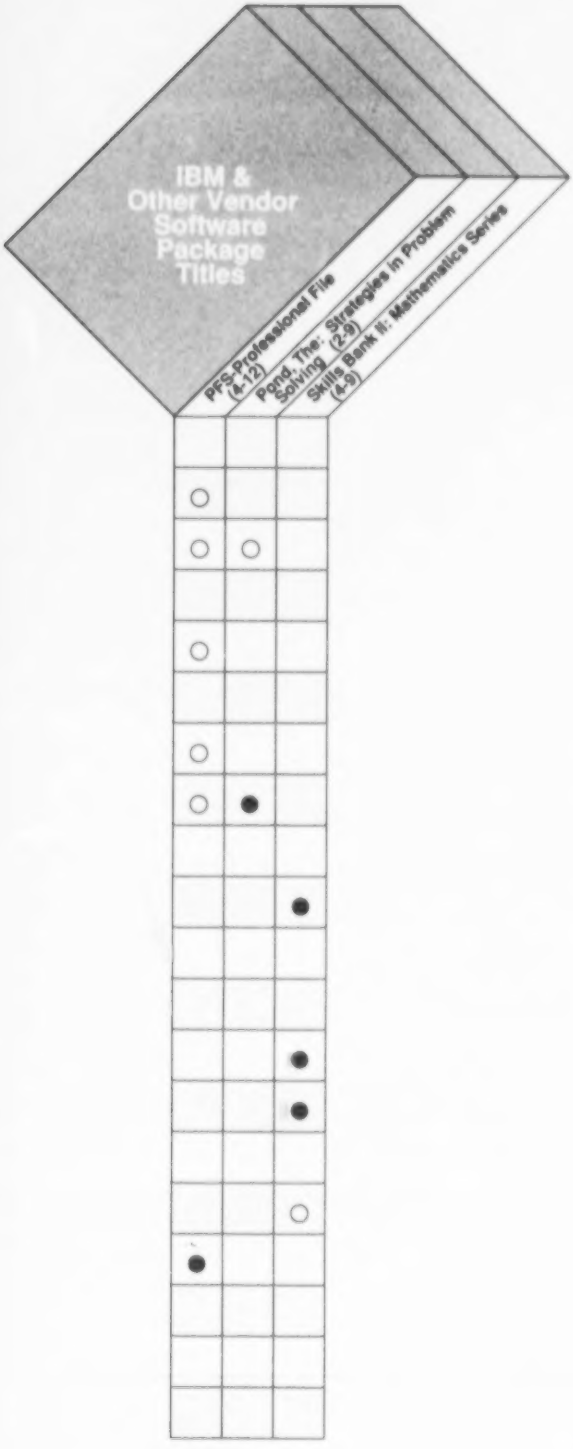
K-8 Mathematics

Statistics, Tables, Charts & Graphs


IBM & Other Vendor Software Package Titles
Exploring Measurement, Time & Money: Level I (K-2)
Math Concepts: Level II (3-4)
Math Concepts: Level III (5-6)
Math Concepts: Level IV (7-8)
Reading for Information: Level III (5-6)
Reading for Information: Level IV (7-8)
Computer Drill & Instruction: Mathematics, Level D (7-8)
Gears: Strategies in Problem Solving (6-12)
Microsoft Works Academic Edition (7-12)
6-8
3-5
K-2

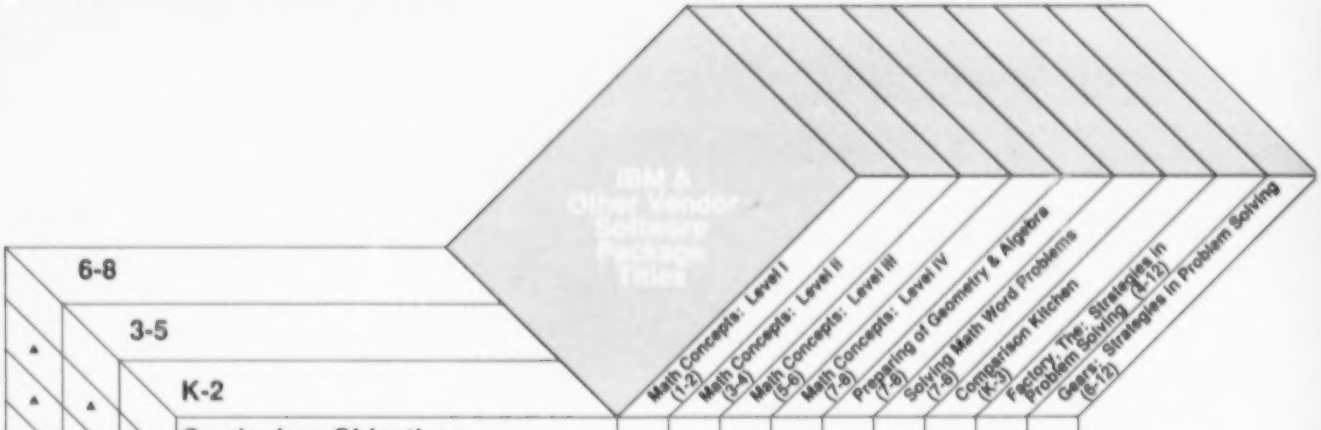
Curriculum Objectives									
Sort & classify data								○	○
Identify relevancy of data								●	○
Estimate outcome of a survey									○
Calculate the average (mean) of a data set			●						○
Determine the mode, median & range of a data set									
Tally a set of data to find the frequency distribution	○								○
Use data to test a hypothesis	○							●	○
Read & interpret charts	○	●	●	●	●	●			
Read & interpret tables & picture, bar, histogram, line & pie graphs	○	●	●	●	●	●			○
Construct data tables									●
Construct a picture chart							○		
Construct a bar graph	○						○		●
Construct a line graph							○		●
Construct a pie chart									●
Use charts, tables & graphs to organize & present data	○						○		●
Use a database to organize & analyze data									●
Use a graphing utility to construct bar, line & pie graphs	●								●
Find the probability of a simple event			●						
Find the number of combinations in a set			●						

● Package fulfills curriculum objective ○ Package partially fulfills curriculum objective with teacher input


IBM &
Other Vendor
Software
Package
Titles
PFS-Professional File (4-12)
Pond, The: Strategies in Problem Solving (2-9)
Skills Bank II: Mathematics Series (4-9)

K-8 Mathematics

Problem Solving and Word Problems



6-8

3-5

K-2

Curriculum Objectives									
Use specific attributes to sort &/or classify objects							●		
Identify patterns &/or sequences in problems							○	●	●
Simplify a problem, restating it if necessary								○	○
Reduce a problem to several smaller problems								○	○
Apply trial & error to solve problems								○	○
Solve problems by working backward								●	●
Solve problems through exhaustive listing									
Build models or draw diagrams to solve problems								●	●
Understand when a solution is reasonable								○	○
Provide multiple solutions to open-ended problems								○	●
Draw conclusions by applying reasoning								○	○
Determine what information a word problem is seeking									
Determine the relevant information in a word problem		●	●	●		●			
Choose the appropriate problem-solving strategy								○	○
Choose the correct operation or sequence of operations to solve a word problem	○	●	●	●		●			
Change word phrases/problems to expressions/equations	●	●	●	●		●			
Find the solution to single-step word problems involving whole numbers	●	●	●	●		●			
Find the solution to multiple-step word problems involving whole numbers		●	●	●		●			
Find the solution to single-step word problems involving fractions	●	●	●	●		●			
Find the solution to multiple-step word problems involving fractions			●	●		●			

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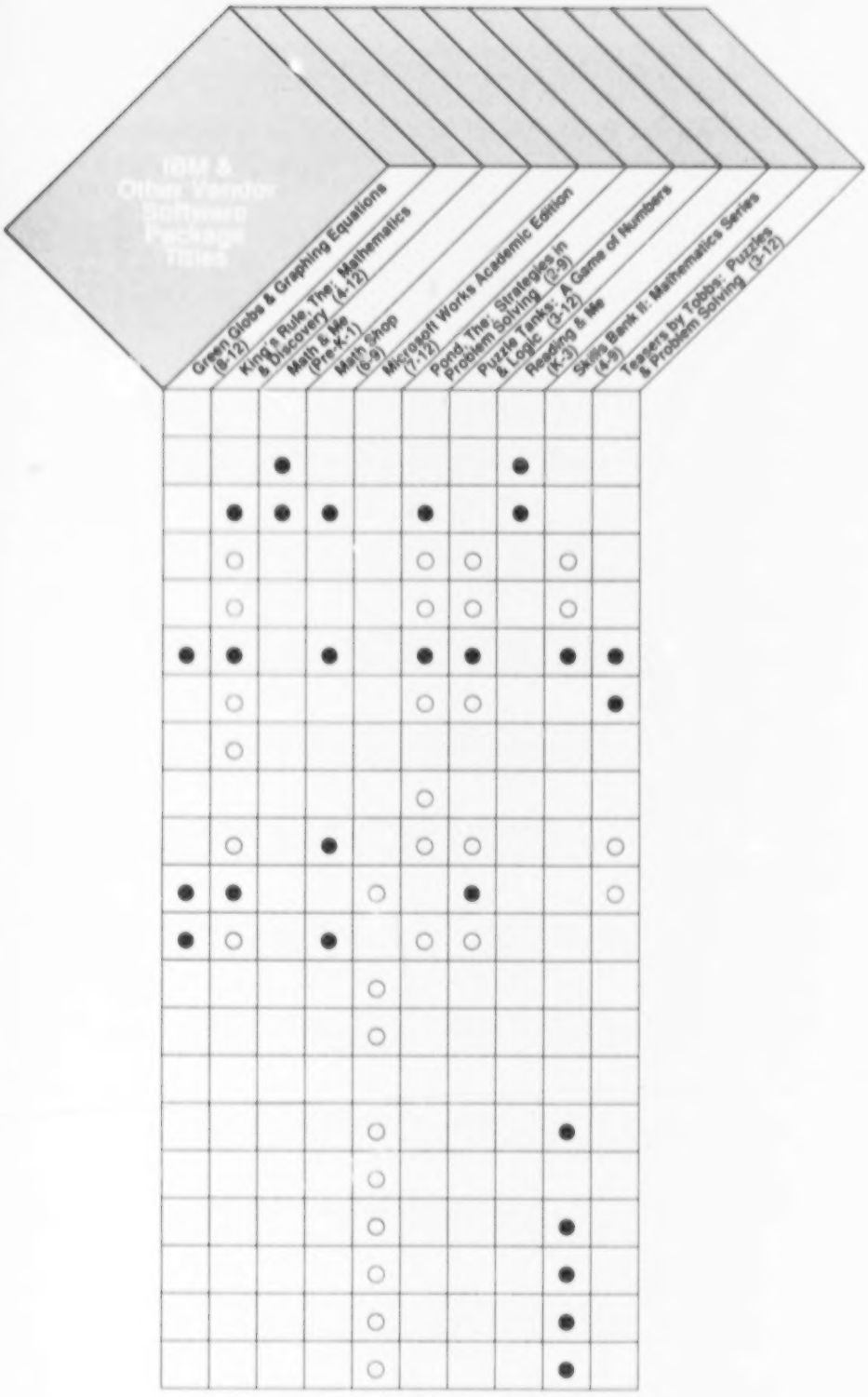
● Package fulfills curriculum objective

○ Package partially fulfills curriculum objective with teacher input


IBM &
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Titles
Green Globs & Graphing Equations (8-12)
King's Rule, The: Mathematics & Discovery (4-12)
Math & Me (Pre-K-1)
Math Shop (6-9)
Microsoft Works Academic Edition (7-12)
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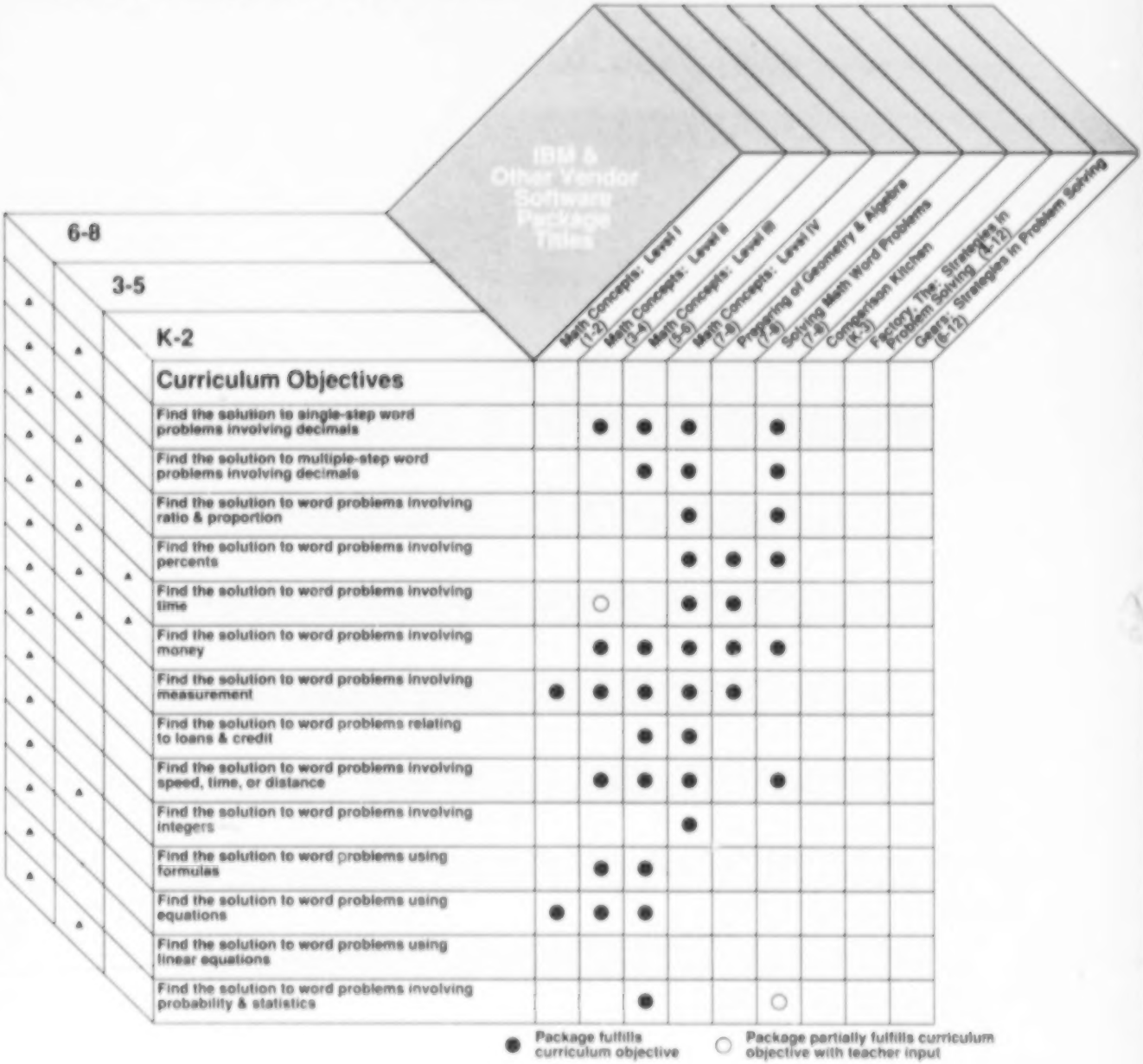
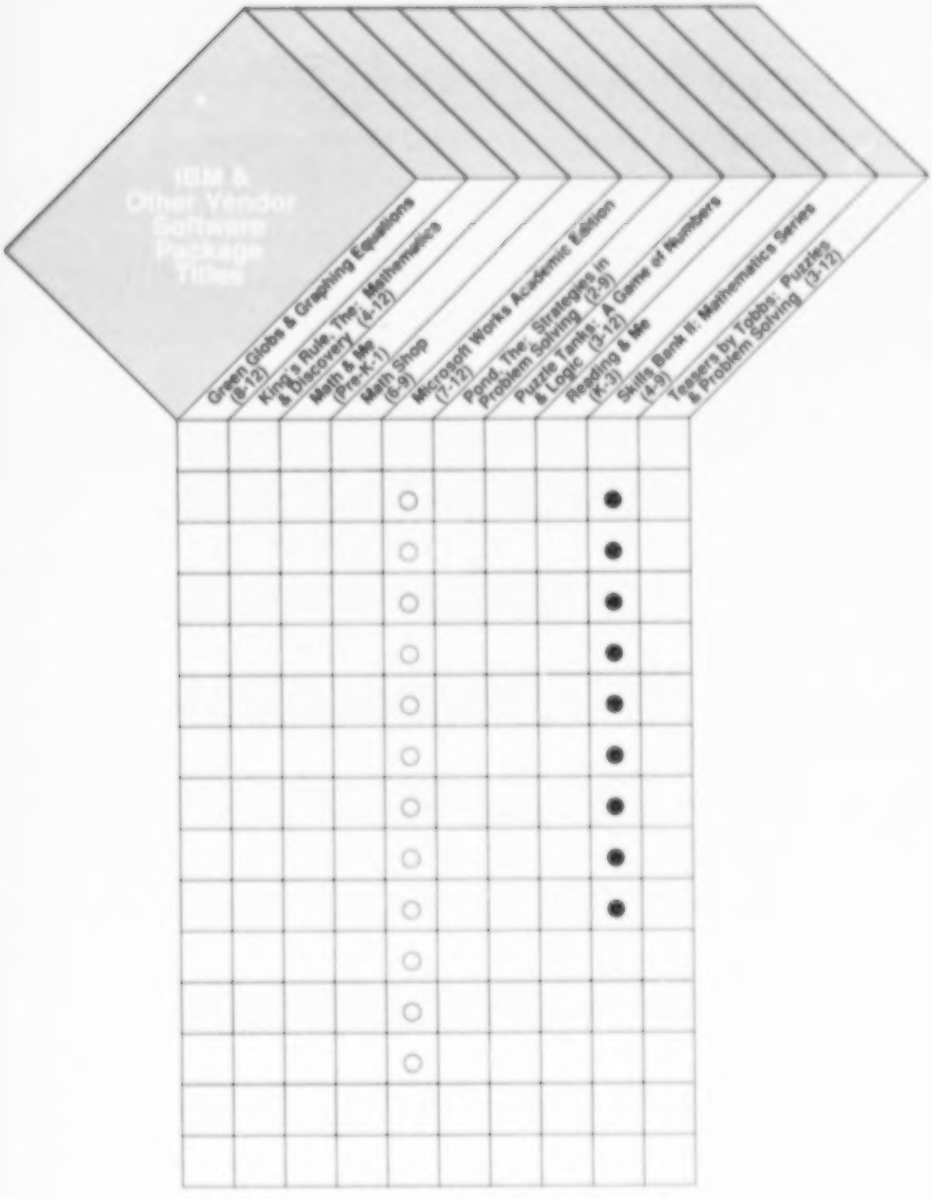
Reading & Me (K-3)
Skills Bank II: Mathematics Series (4-9)
Teasers By Tobbs: Puzzles & Problem Solving (3-12)

K-8 Mathematics

Problem Solving and Word Problems . . . continued


IBM & Other Vendor Software Package Titles
6-8
3-5
K-2
Curriculum Objectives
Math Concepts: Level I (1-2)
Math Concepts: Level II (3-4)
Math Concepts: Level III (5-6)
Math Concepts: Level IV (7-8)
Preparing for Geometry & Algebra (7-8)
Solving Math Word Problems (7-8)
Comparison Kitchen (K-3)
Factory, The: Strategies in Problem Solving (4-12)
Gears: Strategies in Problem Solving (6-12)
Find the solution to single-step word problems involving decimals
Find the solution to multiple-step word problems involving decimals
Find the solution to word problems involving ratio & proportion
Find the solution to word problems involving percents
Find the solution to word problems involving time
Find the solution to word problems involving money
Find the solution to word problems involving measurement
Find the solution to word problems relating to loans & credit
Find the solution to word problems involving speed, time, or distance
Find the solution to word problems involving integers
Find the solution to word problems using formulas
Find the solution to word problems using equations
Find the solution to word problems using linear equations
Find the solution to word problems involving probability & statistics
● Package fulfills curriculum objective
○ Package partially fulfills curriculum objective with teacher input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Titles
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King's Rule, The: Mathematics & Discovery (4-12)
Math & Me (Pre-K-1)
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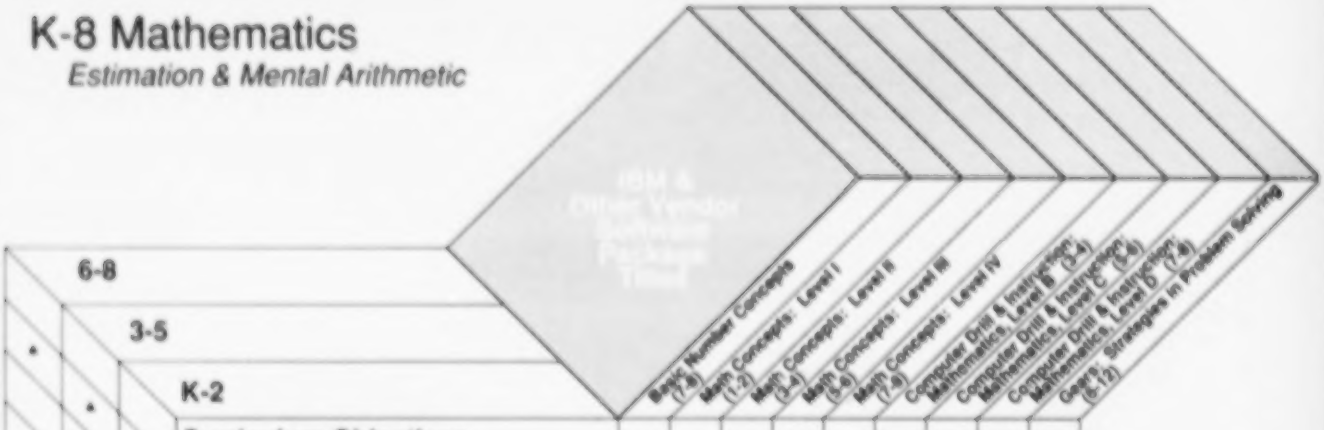
Puzzle Tanks: A Game of Numbers & Logic (3-12)
Reading & Me (K-3)
Skills Bank II: Mathematics Series (4-9)
Teasers by Tobbs: Puzzles & Problem Solving (3-12)

K-8 Mathematics

Estimation & Mental Arithmetic



Curriculum Objectives										
Estimate the number of objects										
Estimate the relative position of a number on an ungraduated scale or number line		●	●	●	●					
Estimate whole number sums, differences, products & quotients	●									
Estimate fraction sums, differences, products & quotients						●				
Estimate a fractional part of an object			●	●	●					
Estimate decimal sums, differences, products & quotients										
Estimate the amount of money needed for expenses										
Estimate the amount of time needed to complete a task										
Estimate temperature, length, volume & weight		○						○		
Operate a calculator										
Use estimation to check the reasonableness of the answer from a calculator										
Mentally add two or more simple whole numbers										○
Mentally subtract two simple whole numbers										○
Mentally multiply two simple whole numbers										○
Mentally divide two simple whole numbers										○
Mentally add & subtract dollar amounts										
Mentally double whole numbers & dollar amounts										
Mentally halve whole numbers & dollar amounts										
Mentally multiply a simple fraction times a whole number										
Mentally calculate halves, quarters & thirds of a mixed number & fractions										

continues

● Package fulfills curriculum objective

○ Package partially fulfills curriculum objective with teacher input

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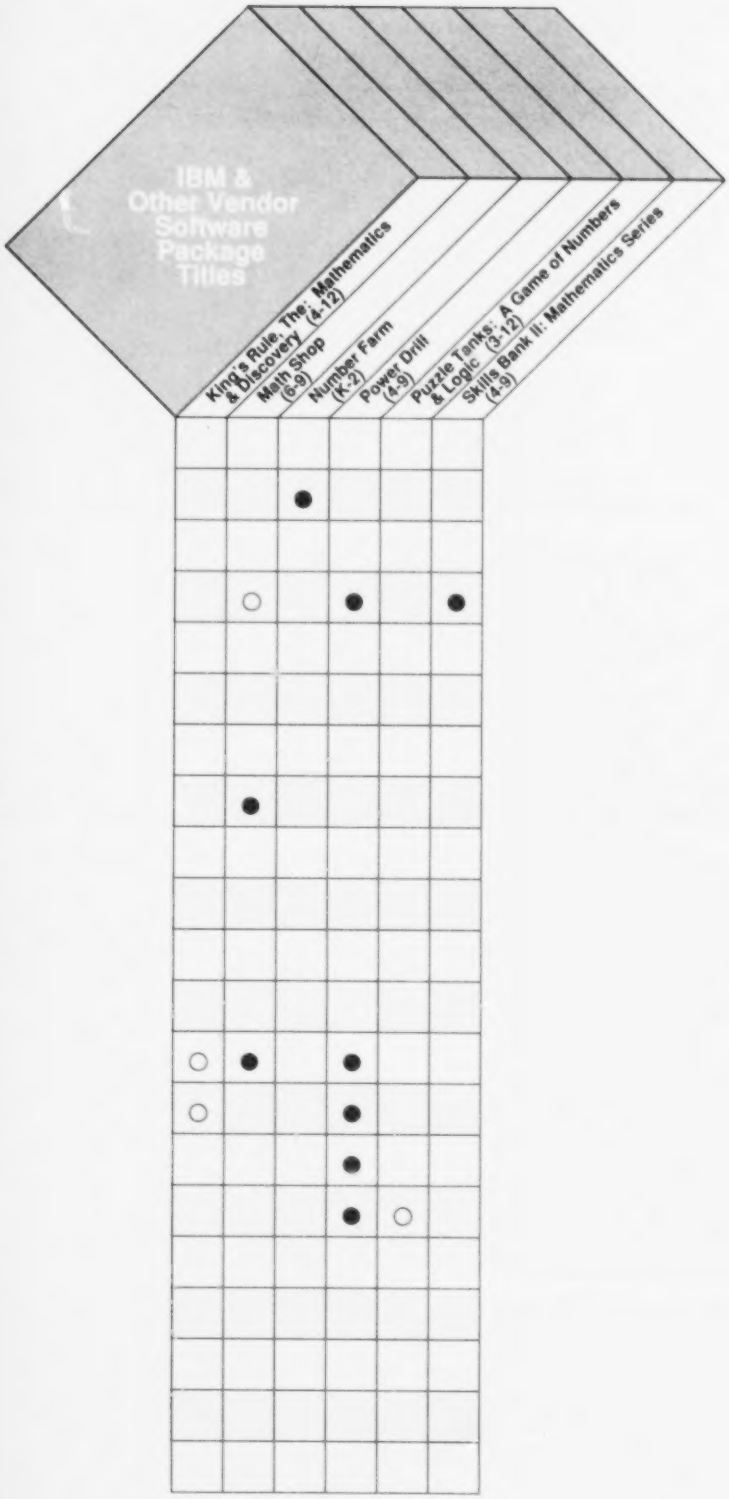
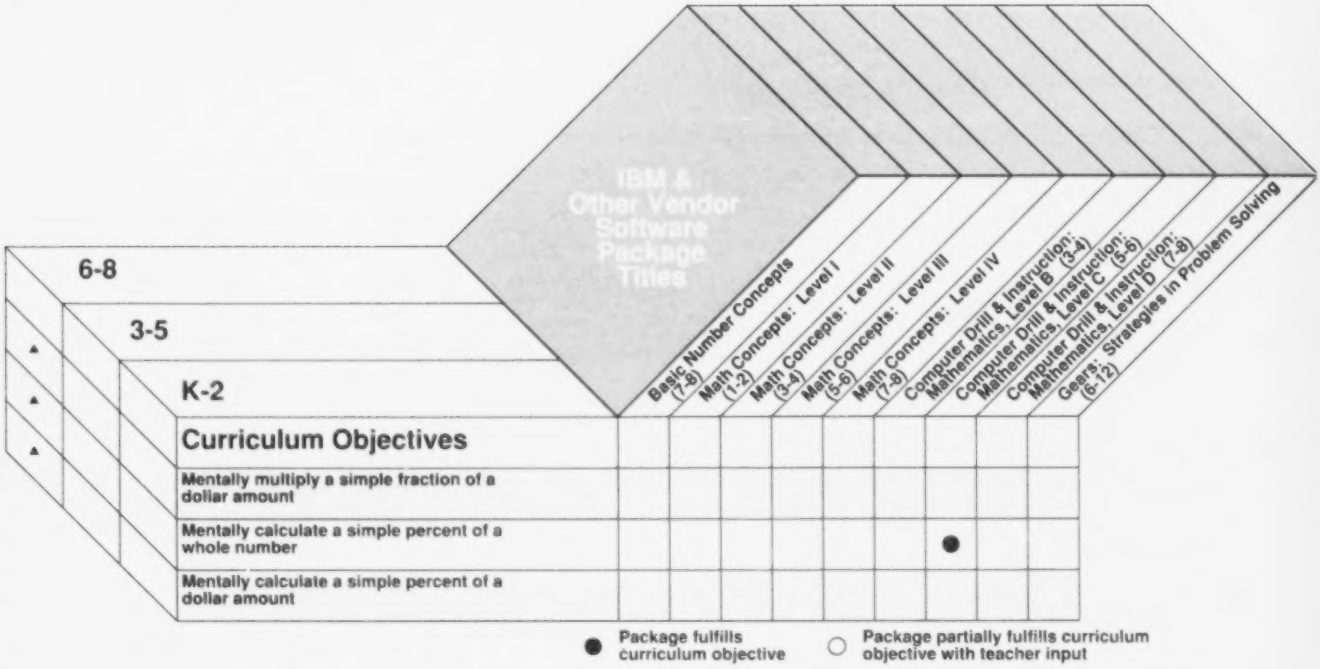
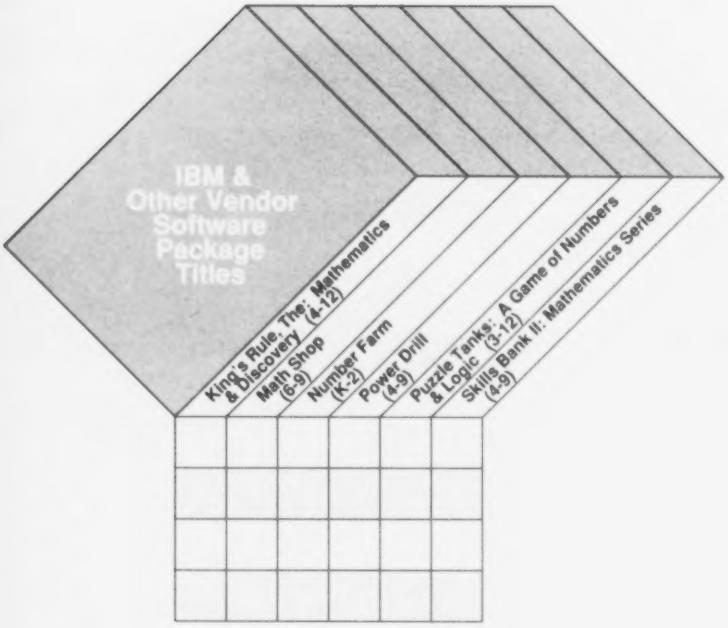

IBM &
Other Vendor
Software
Package
Titles
King's Rule, The: Mathematics & Discovery (4-12)
Math Shop (6-9)
Number Farm (K-2)
Power Drill (4-9)
Puzzle Tanks: A Game of Numbers & Logic (3-12)
Skills Bank II: Mathematics Series (4-9)

K-8 Mathematics

Estimation & Mental Arithmetic ... continued


IBM & Other Vendor Software Package Titles
Basic Number Concepts (7-8)
Math Concepts: Level I (1-2)
Math Concepts: Level II (3-4)
Math Concepts: Level III (5-6)
Math Concepts: Level IV (7-8)
Computer Drill & Instruction: Mathematics, Level B (3-4)
Computer Drill & Instruction: Mathematics, Level C (5-6)
Computer Drill & Instruction: Mathematics, Level D (7-8)
Gears: Strategies in Problem Solving (6-12)
6-8
3-5
K-2
Curriculum Objectives
Mentally multiply a simple fraction of a dollar amount
Mentally calculate a simple percent of a whole number
Mentally calculate a simple percent of a dollar amount
● Package fulfills curriculum objective
○ Package partially fulfills curriculum objective with teacher input


IBM &
Other Vendor
Software
Package
Titles
King's Rule, The: Mathematics & Discovery (4-12)
Math Shop (6-9)
Number Farm (K-2)
Power Drill (4-9)
Puzzle Tanks: A Game of Numbers & Logic (3-12)
Skills Bank II: Mathematics Series (4-9)

Alphabetical List of Titles

A				
	Algebra I: Part 1	IBM	Mathematics	8-12
	Algebra Shop	Scholastic	Mathematics	7-10
	Alphabet Circus	DLM Teaching Resources	Language Arts	K-1
	Analogies Advanced	Hartley Courseware	Language Arts	8-10
	Analogies Tutorial	Hartley Courseware	Language Arts	5-6
	Antonyms & Synonyms	Hartley Courseware	Language Arts	3-8
B				
	Bank Street Writer III	Scholastic	Language Arts	2-12
	Basic Math Competency Skill Builder: Graphs & Mean, Median, Mode	Educational Activities	Mathematics	4-12
	Basic Math Competency Skill Builder: Measuring with a Ruler	Educational Activities	Mathematics	5-8
	Bibliography Generator	Educational Activities	Language Arts	6-12
	Bouncy Bee Learns Letters	IBM	Language Arts	Pre-K-3
	Bouncy Bee Learns Words	IBM	Language Arts	K-5
C				
	Calendar Skills	Hartley Courseware	Mathematics	1-3
	Cause & Effect	Hartley Courseware	Language Arts	4-6
	Chariots, Cougars & Kings	Hartley Courseware	Language Arts	3-5
	Clock	Hartley Courseware	Mathematics	1-4
	Combining Sentences: Level II	IBM	Language Arts	3-4
	Combining Sentences: Level III	IBM	Language Arts	5-6
	Combining Sentences: Level IV	IBM	Language Arts	7-8

Title	Publisher	Subject	Grade
Comparison Kitchen	DLM Teaching Resources	Mathematics	K-3
Computer Drill & Instruction: Mathematics, Level A	SRA–Science Research Associates	Mathematics	1-2
Computer Drill & Instruction: Mathematics, Level B	SRA–Science Research Associates	Mathematics	3-4
Computer Drill & Instruction: Mathematics, Level C	SRA–Science Research Associates	Mathematics	5-6
Computer Drill & Instruction: Mathematics, Level D	SRA–Science Research Associates	Mathematics	7-8
Diascriptive Language Arts Development	Educational Activities	Language Arts	4-7
Diascriptive Reading II	Educational Activities	Language Arts	3-8
Diascriptive Reading III	Educational Activities	Language Arts	6-10
Exploring Measurement, Time & Money: Level I	IBM	Mathematics	K-2
Fact or Opinion	Hartley Courseware	Language Arts	3-6
Factory, The: Strategies in Problem Solving	Sunburst Communications	Mathematics	4-12
Figurative Language	Hartley Courseware	Language Arts	7-9
Fundamentals of Reading	Educational Activities	Language Arts	4-6
Gears: Strategies in Problem Solving	Sunburst Communications	Mathematics, Science	6-12
Geometry One: Foundations	IBM	Mathematics	8-12
Get Set for Writing to Read	IBM	Language Arts	K-1
Green Globs & Graphing Equations	Sunburst Communications	Mathematics	8-12
Homonyms	Hartley Courseware	Language Arts	1-4
Integers/Equations I & II	Hartley Courseware	Mathematics	4-7

K	King's Rule, The: Mathematics & Discovery	Sunburst Communications	Mathematics	4-12
	Kittens, Kids & a Frog	Hartley Courseware	Language Arts	1-2
M	Math & Me	Davidson & Associates	Mathematics	Pre-K-1
	Math Concepts: Level I	IBM	Mathematics	1-2
	Math Concepts: Level II	IBM	Mathematics	3-4
	Math Concepts: Level III	IBM	Mathematics	5-6
	Math Concepts: Level IV	IBM	Mathematics	7-8
	Math Concepts: Level P	IBM	Mathematics	PreK-K
	Math for Everyday Living	Educational Activities	Mathematics	4-8
	Math Practice: Level I	IBM	Mathematics	1-2
	Math Practice: Level II	IBM	Mathematics	3-4
	Math Practice: Level III	IBM	Mathematics	5-6
	Math Practice: Level IV	IBM	Mathematics	7-8
	Math Shop	Scholastic	Mathematics	6-9
	Mathematics Exploration Toolkit	IBM	Mathematics	8-12
	Metric Skills	Hartley Courseware	Mathematics	3-6
N	Microsoft Works Academic Edition	Microsoft Corporation	Language Arts, Mathematics	7-12
	Number Farm	DLM Teaching Resources	Mathematics	K-2

P			
Parts of Speech: Level II	IBM	Language Arts	3-4
Parts of Speech: Level III	IBM	Language Arts	5-6
PFS-Professional File	Software Publishing Corporation	Mathematics	4-12
Pond, The: Strategies in Problem Solving	Sunburst Communications	Mathematics	2-9
Power Drill	Sunburst Communications	Mathematics	4-9
Primary Editor Plus	IBM	Language Arts	K-6
Punctuation: Level II	IBM	Language Arts	3-4
Punctuation: Level III	IBM	Language Arts	5-6
Punctuation: Level IV	IBM	Language Arts	7-8
Puzzle Tanks: A Game of Numbers & Logic	Sunburst Communications	Mathematics	3-12
R			
Reading & Me	Davidson & Associates	Language Arts	Pre-K-2
Reading for Information: Level II	IBM	Language Arts	3-4
Reading for Information: Level III	IBM	Language Arts	5-6
Reading for Information: Level IV	IBM	Language Arts	7-8
Reading for Meaning: Level I	IBM	Language Arts	2-3
Reading for Meaning: Level II	IBM	Language Arts	3-4
Reading for Meaning: Level III	IBM	Language Arts	5-6
Reading for Meaning: Level IV	IBM	Language Arts	7-8

R			
S			
	Roots & Affixes	Hartley Courseware	Language Arts	3-8
	Scholastic PFS: Write	Scholastic	Language Arts	7-12
	Scuffy & Friends	Hartley Courseware	Language Arts	K-2
	Skills Bank II: Language Series	Softwriters Development Corporation	Language Arts	4-9
	Skills Bank II: Mathematics Series	Softwriters Development Corporation	Mathematics	4-9
	Skills Bank II: Reading Series	Softwriters Development Corporation	Language Arts	4-9
	Skills Bank II: Writing Series	Softwriters Development Corporation	Language Arts	4-9
	Spelling: Level I	IBM	Language Arts	1-2
	Spelling: Level II	IBM	Language Arts	3-4
	Spelling: Level III	IBM	Language Arts	5-6
	Success Math: Decimals Series	Microcomputer Workshops Courseware	Mathematics	5-8
	Success Math: Fractions Series	Microcomputer Workshops Courseware	Mathematics	5-8
	Success with Algebra: Algebra Series	Microcomputer Workshops Courseware	Mathematics	8-12
	Success with Writing	Scholastic	Language Arts	6-12
T			
V			
	Teasers by Tobbs: Puzzles & Problem Solving	Sunburst Communications	Mathematics	3-12
	Vocabulary: Level II	IBM	Language Arts	3-4
	Vocabulary: Level III	IBM	Language Arts	4-6
	Vocabulary: Level IV	IBM	Language Arts	7-8
W			
	Who-What-Where-When-Why	Hartley Courseware	Language Arts	1-4

W

Title	Publisher	Subject	Grade
Word Attack Plus	Davidson & Associates	Language Arts	4-12
Word Families	Hartley Courseware	Language Arts	1-3
Write On: Elementary Collection	Humanities Software	Language Arts	3-6
Write On: Intermediate Collection	Humanities Software	Language Arts	3-9
Write On: Primary Collection	Humanities Software	Language Arts	K-4
Write On: Secondary Collection	Humanities Software	Language Arts	9-12
Writing to Read	IBM	Language Arts	K-2

Publisher Contact Information

D	**Davidson & Associates** 3135 Kashiwa Street Torrance, CA 90505 800/556-6141, 213/534-4070	Math & Me Reading & Me Word Attack Plus
D	**DLM Teaching Resources** One DLM Park Allen, TX 75002 800/527-4747, 214/248-6300	Alphabet Circus Comparison Kitchen Number Farm
E	**Educational Activities** PO Box 392 Freeport, NY 11520 800/645-3739, 516/223-4666	Basic Math Competency Skill Builder: Graphs & Mean, Median, Mode Basic Math Competency Skill Builder: Measuring with a Ruler Bibliography Generator Diascriptive Language Arts Development Diascriptive Reading II Diascriptive Reading III Fundamentals of Reading Math for Everyday Living
H	**Hartley Courseware** 123 Bridge Street Dimondale, MI 48821 800/247-1380, 517/646-6458	Analogies Advanced Analogies Tutorial Antonyms & Synonyms Calendar Skills Cause & Effect Chariots, Cougars & Kings Clock Fact or Opinion Figurative Language Homonyms Integers Equations I & II Kittens, Kids & a Frog Metric Skills Roots & Affixes Scuffy & Friends Who-What-Where-When-Why Word Families
H	**Humanities Software** PO Box 950 Hood River, OR 97031 509/493-1395	Write On: Elementary Collection Write On: Intermediate Collection Write On: Primary Collection Write On: Secondary Collection
I	**IBM** International Business Machines Department 8WF 4111 Northside Parkway Atlanta, Georgia 30327 Contact your local IBM Representative	Algebra I: Part 1 Bouncy Bee Learns Letters Bouncy Bee Learns Words Combining Sentences: Level II Combining Sentences: Level III Combining Sentences: Level IV Exploring Measurement, Time & Money: Level I Geometry One: Foundations Get Set for Writing to Read Math Concepts: Level I Math Concepts: Level II

Publisher	Titles
IBM *continued*	Math Concepts: Level III Math Concepts: Level IV Math Concepts: Level P Math Practice: Level I Math Practice: Level II Math Practice: Level III Math Practice: Level IV Mathematics Exploration Toolkit Parts of Speech: Level II Parts of Speech: Level III Primary Editor Plus Punctuation: Level II Punctuation: Level III Punctuation: Level IV Reading for Information: Level II Reading for Information: Level III Reading for Information: Level IV Reading for Meaning: Level I Reading for Meaning: Level II Reading for Meaning: Level III Reading for Meaning: Level IV Spelling: Level I Spelling: Level II Spelling: Level III Vocabulary: Level II Vocabulary: Level III Vocabulary: Level IV Writing to Read
Microcomputer Workshops Courseware PO Box 271 Port Chester, NY 10573	Success Math: Decimals Series Success Math: Fractions Series Success with Algebra: Algebra Series
Microsoft Corporation 16011 NE 36th Way Redmond, WA 98073 206/882-8080	Microsoft Works Academic Edition
Scholastic 730 Broadway New York, NY 10003 800/325-6149, 212/505-3561	Algebra Shop Bank Street Writer III Math Shop Scholastic PFS: Write Success with Writing
Software Publishing Corporation 1901 Landing Drive Mountain View, CA 94039 415/962-8910	PFS-Professional File
Softwriters Development Corporation 4718 Hartford Avenue Baltimore, MD 21214 800/451-5726	Skills Bank II: Language Series Skills Bank II: Mathematics Series Skills Bank II: Reading Series Skills Bank II: Writing Series

S	**SRA–Science Research Associates** 155 N Wacker Drive Chicago, IL 60606 312/984-7000	Computer Drill & Instruction: Mathematics, Level A Computer Drill & Instruction: Mathematics, Level B Computer Drill & Instruction: Mathematics, Level C Computer Drill & Instruction: Mathematics, Level D
S	**Sunburst Communications** 39 Washington Avenue Pleasantville, NY 10570-9971 800/431-1934	Factory, The: Strategies in Problem Solving Gears: Strategies in Problem Solving Green Globs & Graphing Equations King's Rule, The: Mathematics & Discovery Pond, The: Strategies in Problem Solving Power Drill Puzzle Tanks: A Game of Numbers & Logic Teasers by Tobbs: Puzzles & Problem Solving

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